

For jointly authored papers, the bibliographic details appear only once.

1 ARTICLES IN REFEREED PUBLICATIONS:

ARBEL, TAL:

- [1] Z. Karimaghloo*, H. Rivaz, D. L. Arnold, D. L. Collins and T. Arbel, "Temporal Hierarchical Adaptive Texture CRF for Automatic Detection of Gadolinium-Enhancing Multiple Sclerosis Lesions in Brain MRI", *IEEE Transactions on Medical Imaging*, Vol. 34, No.6, pp. 1227-1241, June 2015.
- [2] R. Harmouche*, N. Subbanna*, D. L. Collins, D. L. Arnold and T. Arbel, "Probabilistic Multiple Sclerosis Lesion Classification based on Modelling Regional Intensity Variability and Local Neighbourhood Information", *IEEE Transactions on Biomedical Engineering*", Vol. 62, No.5, pp. 1281-1292, May 2015.
- [3] B. H. Menze, A. Jakaby, S. Bauery, J. Kalpathy-Cramery, K. Farahaniy, J. Kirby, Y. Burreny, N. Porzy, J. Slotboom, R. Wiesty, L. Lancziy, E. Gerstnery, M. Webery, T. Arbel, B. B. Avants, N. Ayache, P. Buendia, D. L. Collins, N. Cordier, J. J. Corso, A. Criminisi, T. Das, H. Delingette, C. Demiralp, C. R. Durst, M. Dojat, S. Doyle, J. Festa, F. Forbes, E. Geremia, B. Glocker, P. Galland, X. Guo, A. Hamamci, K. M. Iftekharuddin, R. Jena, N. M. John, E. Konukoglu, D. Lashkari, J. A. Mariz, R. Meier, S. Pereira, D. Precup, S. J. Price, T. Riklin Raviv, S. M.S. Reza, M. Ryan, D. Sarikaya, L. Schwartz, H. Shin, J. Shotton, C. A. Silva, N. Sousa, N. K. Subbanna*, G. Szekely, T. J. Taylor, O. M. Thomas, N.J. Tustison, G. Unal, F. Vasseur, M. Wintermark, D. Hye Ye, L. Zhao, B. Zhao, D. Zikic, M. Prastaway, M. Reyesyz, K. Van Leemput, "The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS)", *IEEE Transactions on Medical Imaging*, Vol. 34, No. 10, pp. 1993-2024, October 2015.

BOUFFARD, FRANCOIS

- [4] H. Nosair and F. Bouffard, "Reconstructing Operating Reserve: Flexibility for Sustainable Power Systems," *IEEE Trans. Sustain. Energy*, vol. 6, no. 4, pp. 1624–1637, Oct. 2015.
- [5] M. Ross, C. Abbey, F. Bouffard and G. Joós, "Multi-Objective Optimization Dispatch for Microgrids with a High Penetration of Renewable Generation," *IEEE Trans. Sustain. Energy*, vol. 6, no. 4, pp. 1306–1314, Oct. 2015.
- [6] H. Nosair and F. Bouffard, "Flexibility Envelopes for Power System Operational Planning," *IEEE Trans. Sustain. Energy*, vol. 6, no. 3, pp. 800–809, Jul. 2015.
- [7] J. Clavier, F. Bouffard, D. Rimorov, and G. Joós, "Generation Dispatch Techniques for Remote Communities with Flexible Demand," *IEEE Trans. Sustain. Energy*, vol. 6, no. 3, pp. 720–728, Jul. 2015.
- [8] A. Jahanbani Ardakani and F. Bouffard, "Acceleration of Umbrella Constraint Discovery in Security-Constrained Generation Scheduling Problems," *IEEE Trans. Power Syst.*, vol. 30, no. 4, pp. 2100–2109, Jun. 2015.

BOULET, BENOIT:

- [9] MSR Mousavi, A Pakniyat, T Wang, B Boulet, "Seamless dual brake transmission for electric vehicles: Design, control and experiment" *Mechanism and Machine Theory*, 94, 96-118. 2015.
- [10] Haddadi, A., Boulet, B., Yazdani, A., Joos, G., A μ -based approach to small-signal stability analysis of an interconnected distributed energy resource unit and load, *IEEE Trans. on Power Delivery*, Vol. 30, No. 4, Aug. 2015, pp. 1715-1726
- [11] .A Haidar, C Pinaroc, V Messier, T M Mitre, C Leroux, B Boulet, L Legault, R Rabasa-Lhoret, "Understanding the Benefits of Glucagon in the Artificial Pancreas: Randomized Crossover Trial" *Canadian Journal of Diabetes*, Volume 38, Issue 5, October 2014, Pages S16.
- [12] A. Najmabadi, K. Humphries, B. Boulet, "Implementation of a Bidirectional DC-DC in Electric Powertrains for Drive Cycles Used by Medium Duty Delivery Trucks" *Energy Conversion Congress and Exposition (ECCE)*, 2015 IEEE, 1338-1345.

- [13] M. S. R. Mousavi, A. Pakniyat, M. K. Helwa, B. Boulet, "Observer-Based Backstepping Controller Design for Gear Shift Control of a Seamless Clutchless Two-Speed Transmission for Electric Vehicles" IEEE Vehicle Power and Propulsion Conference (VPPC), 2015 1-6.
- [14] Najmabadi, K. Humphries, B. Boulet, "Effects of Target Modulation Index on Variable DC Voltage Control for Electric Powertrains in Medium Duty Delivery Trucks" IEEE Vehicle Power and Propulsion Conference (VPPC), 2015 1-6.
- [15] H. V. Alizadeh, M. S. R. Mousavi, B. Boulet, "Synchromesh Torque Estimation in an Electric Vehicle's Clutchless Automated Manual Transmission Using Unknown Input Observer" IEEE Vehicle Power and Propulsion Conference (VPPC), 2015 1-5.
- [16] R. Tahmasebi, H. V. Alizadeh, B. Boulet, "Robust Gear Shifting Force Control of a Solenoid Actuator in an Automated Manual Transmission of an Electric Vehicle via Mu-Synthesis" IEEE Vehicle Power and Propulsion Conference (VPPC), 2015 1-6.
- [17] M. S. R. Mousavi, B. Boulet, "Dynamical modeling and optimal state estimation using Kalman-Bucy filter for a seamless two-speed transmission for electric vehicles" 2015 Mediterranean Conference on Control and Automation, Torremolinos, Spain, pp. 76-81.

CAINES, PETER E.:

- [18] D. Gromov and P.E.Caines, "Stability of Composite Thermodynamic Systems with Interconnection Constraints." Institute of Engineering and Technology Journal on Control Theory and Applications, 2015, pp 1-8, ISSN 1751-8644, doi: 10.1049/jiet-cta.2014.0867
- [19] A. Pakniyat, and P. E. Caines, "On the Minimum Principle and Dynamic Programming for Hybrid Systems with Low Dimensional Switching Manifolds", Proceedings of the 54th IEEE Conference on Decision and Control, Osaka, Japan, December, 2015, pp. 2567-2573.
- [20] N. Sen, and P. E. Caines, "On the Generation of Conditional Densities in Nonlinear Filtering for McKean-Vlasov Systems", Proceedings of the 54th IEEE Conference on Decision and Control, Osaka, Japan, December, 2015, pp. 1130-1135
- [21] D.Firoozi, and P. E. Caines, "Epsilon-Nash Equilibria for Partially Observed LQG Mean Field Games with Major Agent: Partial Observations by All Agents", Proceedings of the 54th IEEE Conference on Decision and Control, Osaka, Japan, December, 2015, pp. 4430-4437.
- [22] M. K. Helwa, and P. E. Caines, "Epsilon Controllability of Nonlinear Systems on Polytopes", Proceedings of the 54th IEEE Conference on Decision and Control, Osaka, Japan, December, 2015, pp. 252-257.
- [23] M. K. Helwa, and P. E. Caines, "On the Construction of In-Block Controllable Covers of Nonlinear Systems on Polytopes", Proceedings of the 54th IEEE Conference on Decision and Control, Osaka, Japan, December, 2015, pp. 276-281
- [24] N. Sen and P. E. Caines, "On Nonlinear Filtering Theory for McKean-Vlasov SDEs", SIAM Conference on Control and Applications, Paris, July, 2015
http://www.siam.org/meetings/ct15/ct15_abstracts.pdf, pp,39
- [25] P. E. Caines, "Nonlinear Mean Field Games with Partially Observed Major Player and Stochastic Mean Field", Mean Field Games and Related Topics III, Institut Henri Poincare', Paris, 10 – 12 June, 2015
- [26] C. Mueller-Roemer and P. E. Caines, "An Isothermal Energy Function State Space Model of a Stirling Engine", Preprints, 1st IFAC Conference on Modelling, Identification and Control of Nonlinear Systems, Saint Petersburg, Russia, June 24-26, 2015, pp 644 – 649
- [27] A. Pakniyat, and P. E. Caines, "Time Optimal Hybrid Minimum Principle and the Gear Changing Problem for Electric Vehicles", Proceedings of the 5th IFAC Conference on Analysis and Design of Hybrid Systems, Atlanta, GA, USA, 2015, Volume 48, Issue 27, pp. 187-192.
- [28] A. Pakniyat, and P. E. Caines, "On the Relation between the Hybrid Minimum Principle and Hybrid Dynamic Programming: a Linear Quadratic Example", Proceedings of the 5th IFAC Conference on Analysis and Design of Hybrid Systems, Atlanta, GA, USA, 2015, Volume 48, Issue 27, pp. 169-174.
- [29] P. Prokopiou, P. E. Caines and A. Mahajan, "An Estimation Based Allocation Rule with Super-linear Regret and Finite Lock-on Time for Time-dependent Multi-armed Bandit Processes", IEEE Canadian Conf. on Elec. and Comp. Eng, Halifax, 4 -6 May, 2015
- [30] N. Sen and P. E. Caines, "Nonlinear Mean Field Games with Partially Observed Major Player and Stochastic Mean Field", India Control Conference, 5 – 7 January, 2015, Chennai, Madras

CHAMPAGNE, BENOIT:

- [31] Y. Cai, B. Champagne, M.-M. Zhao and M.-J. Zhao, "Adaptive reduced-rank receive processing based on minimum symbol-error-rate criterion for large-scale multiple-antenna systems," *IEEE Trans. on Commun.*, vol. 63, pp. 4185-4201, Nov. 2015.
- [32] M. Parchami, W.-P. Zhu, E. Plourde and B. Champagne, "Bayesian STSA estimation using masking properties and generalized gamma prior for speech enhancement, *EURASIP J. on Advances in Signal Processing*, vol. 87, 2015, DOI 10.1186/s13634-015-0270-6.
- [33] R. Abdolee (PhD), B. Champagne and A. H. Sayed, "Diffusion adaptation over multi-agent networks with wireless link impairments", *IEEE Trans. on Mobile Computing*, vol. xx, pp. xx-xx, 2015 (accepted Jan. 2015 as DOI 10.1109/TMC.2015.2460251; awaiting final pagination).
- [34] J. Zou, Y. Zou (Post-doc), B. Champagne, W.-P. Zhu, and L. Hanzo, "Security-reliability trade-off analysis of multiple-relay aided decode-and-forward cooperation," *IEEE Trans. on Vehicular Technology*, vol. xx, pp. xx-xx, 2015 (accepted Jan. 2015 as DOI 10.1109/TVT.2015.2453364; awaiting final pagination).
- [35] R. Abdolee (PhD) and B. Champagne, "Centralized adaptation for parameter estimation over wireless sensor networks", *IEEE Communications Letters*, vol. 19, pp. 1624-1627, Sept. 2015.
- [36] Yang (PhD), B. Champagne, Y. Zou and L. Hanzo, "Joint optimization of transceiver matrices for MIMO-aided multiuser AF relay networks: Improving the QoS in the presence of CSI errors," *IEEE Trans. on Vehicular Technology*, vol. xx, pp. xx-xx, 2015 (accepted Jan. 2015 as DOI 10.1109/TVT.2015.2410759; awaiting final pagination).
- [37] A. Assra (Post-doc), J. Yang (PhD) and Benoit Champagne, "An EM approach for cooperative spectrum sensing in multi-antenna CR networks," *IEEE Trans. on Vehicular Technology*, vol. xx, pp. xx-xx, 2015 (accepted Aug. 2014 as DOI 10.1109/TVT.2015.2408369; awaiting final pagination).
- [38] X. Zhu (visiting PhD), W.-P. Zhu and B. Champagne "Spectrum sensing based on fractional lower order moments for cognitive radios in α -stable distributed noise," *Signal Processing*, vol. 111, pp. 94-105, June 2015.
- [39] W. Hou and B. Champagne, "Semi-blind channel estimation for OFDM/OQAM systems," *IEEE Signal Processing Letters*, vol. 22, pp. 400-403, April 2015.
- [40] Y. Zou (Post-doc), B. Champagne, W.-P. Zhu, and L. Hanzo, "Relay-selection improves the security-reliability trade-off in cognitive radio systems," *IEEE Trans. on Communications*, vol. 63, pp. 215-228, Jan. 2015.
- [41] V. Mani (MEng), B. Champagne and W.-P. Zhu, "Speech enhancement in modulation domain using codebook-based speech and noise estimation," in *Proc. IEEE Global Conf. on Signal and Information Processing*, Orlando, U.S.A., Dec. 2015, 5 pages.
- [42] J. Yang (PhD), B. Champagne, Q. Li and L. Hanzo. "Secure MIMO AF relaying design: An intercept probability constrained approach", in *Proc. IEEE GLOBECOM*, San Diego (CA), U.S.A., Dec. 2015, 6 pages.
- [43] J. Yang (PhD, presenter), Y. Cai, B. Champagne and L. Hanzo, "Multi-user beamforming-aided AF relaying: A low-complexity adaptive design approach," in *Proc. IEEE Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove (CA), U.S.A., Nov. 2015, 6 pages.
- [44] M.-M Zhao, Y. Cai, Q. Shi, B. Champagne and M. Zhao, "Robust transceiver design for MISO interference channel with energy harvesting," in *Proc. IEEE VTC-Fall*, Boston, U.S.A., Sept. 2015, 5 pages.
- [45] A. Baghaki (PhD, presenter) and B. Champagne, "Joint carrier frequency offset, sampling time offset and channel estimation for OFDM-OQAM systems, in *Proc. IEEE VTC-Fall*, Boston, U.S.A., Sept. 2015, 5 pages.
- [46] X. Wu, Y. Cai, R. C. de Lamare, B. Champagne and M. Zhao, "Adaptive blind widely linear CCM reduced-rank beamforming for large-scale antenna arrays," *IEEE Int. Conf. on Digital Signal Processing*, Singapore, July 2015, pp. 5-9.
- [47] S. Yousefi (PhD, presenter), R. M. Vaghefi, X.-W. Chang, B. Champagne and M. Buehrer, "Sensor localization in NLOS environments with anchor uncertainty and unknown clock parameters," in *Proc. IEEE ICC (Workshop on Advances in Network Localization and Navigation)*, London, U.K., June 2015, pp. 742-747.
- [48] L. Zhang, Y. Cai, B. Champagne and M. Zhao, "Tomlinson-Harashima precoding design in MIMO wiretap channels based on the MMSE criterion", in *Proc. IEEE ICC (Workshop on Wireless Physical Layer Security)*, London, U.K., June 2015, pp. 470-474.

- [49] J. Yang (PhD, presenter), B. Champagne, Y. Zou and L. Hanzo, "MIMO AF relaying security: Robust transceiver design in the presence of multiple eavesdroppers," in Proc. IEEE ICC, London, U.K., June 2015, pp. 4937-4942.
- [50] M. Parchami, Wei-Ping Zhu and B. Champagne, "A new algorithm for noise PSD matrix estimation in multi-microphone speech enhancement based on recursive smoothing", in Proc. IEEE Int. Symp. on Circuits and Systems, Lisbon, Portugal, May 2015, pp. 429-432.
- [51] G. Ghodoosipour (MEng, presenter), E. Plourde and B. Champagne, "On the use of a codebook-based modeling approach for Bayesian STSA speech enhancement," in Proc. IEEE CCECE, Halifax, Canada, May 2015, pp. 1277-1282.

CHEN, LAWRENCE R.:

- [52] L. R. Chen, "Generating UWB and microwave waveforms using silicon photonics," IEICE Transactions on Electronics, Special Section on Microwave Photonics, vol. E98-C, no. 8, pp. 752-763 (2015).
- [53] J. Wang and L. R. Chen, "Low crosstalk Bragg grating/Mach-Zehnder interferometer optical add-drop multiplexer in silicon photonics," Optics Express, vol. 23, no. 20, pp. 26450-26459 (2015).
- [54] J. Wang and L. R. Chen, "Multichannel OADM based on cascaded Bragg grating/Mach-Zehnder interferometers in SOI," IET Electronics Letters, vol. 51, no. 18, pp. 1431-1433 (2015).
- [55] R. Ashrafi, M. Rezagholipour Dizaji, L. R. Cortés, J. Zhang, J. Yao, J. Azaña, and L. R. Chen, "Time-delay to intensity mapping based on a second-order optical integrator: application to optical arbitrary waveform generation," Optics Express, vol. 23, no. 12, pp. 16209-16223 (2015).
- [56] J. Wang, I. Glesk, and L. R. Chen, "Subwavelength grating Bragg grating filters in silicon-on-insulator," IET Electronics Letters, vol. 51, no. 9, pp. 712-714 (2015).
*Selected by the editors to be featured as a research highlight in the issue
- [57] R. Ashrafi, J. Wang*, I. Glesk, and L. R. Chen, "Silicon photonic subwavelength grating based integrated optical delay lines," 12th International Conference on Group IV Photonics, 26-28 August 2015, Vancouver, BC.
- [58] J. Wang*, I. Glesk, and L. R. Chen, "Subwavelength grating filters in SOI," 12th International Conference on Group IV Photonics, 26-28 August 2015, Vancouver, BC.
- [59] J. Wang*, R. Ashrafi, and L. R. Chen, "Integrated bandpass transmission filters based on Sagnac loops incorporating Bragg gratings in SOI," 12th International Conference on Group IV Photonics, 26-28 August 2015, Vancouver, BC.
- [60] J. Wang*, R. Ashrafi, I. Glesk, and L. R. Chen, "Subwavelength grating devices in SOI," 14th International Conference on Optical Communications and Networks, 3-5 July 2015, Nanjing, China.
- [61] Y. Li*, G. Wang, and L. R. Chen, "Comparison of optical back propagation and in-line nonlinear compensation in optical fiber communications," Photonics North, 9-11 June 2015, Ottawa, ON.
- [62] J. Ctyroky*, P. Kwiecién, J. Wang, I. Richter, I. Glesk, and L. Chen, "Simulations of waveguide Bragg grating filters based on subwavelength grating waveguide," SPIE Optics and Optoelectronics, Integrated Optics: Physics and Simulations, 13-16 April 2015, Prague, Czech Republic.

CLARK, JAMES J.:

- [63] Demirkus, M., Precup, D., Clark, J.J. and Arbel, T., "Hierarchical Temporal Graphical Model for Head Pose Estimation and Subsequent Attribute Classification in Real-World Videos", Computer Vision and Image Understanding, Vol. 136, pp 128-145, 2015.
- [64] Rezagholizadeh, M., Akhavan, T., Soudi, A., Kaufmann, H., and Clark, J.J., "A color retargeting approach for mesopic vision: simulation and compensation", Journal of Imaging Science and Technology, vol. 60, pp 1-12.
- [65] Bouchard, J., *Nazzar, Y., and Clark, J.J., "Half-Occluded Regions and Detection of Pseudoscopia", International Conference on 3D Vision (3DV), Lyon, France, October 2015
- [66] Rezagholizadeh, M. and Clark, J.J., "Image Sensor Modeling: Noise and Linear Transformation Impacts on the Color Gamut", 12th Conference on Computer and Robot Vision (CRV), Halifax, Canada, May 2015

COATES, MARK J.:

- [67] M. Kharratzadeh, B. Renard, and M.J. Coates, "Bayesian topic model approaches to online and time-dependent clustering," *Digital Signal Processing*, vol. 47, no. 12, pp. 25-35, Dec. 2015.
- [68] S. Nannuru and M.J. Coates, "Hybrid multi-Bernoulli and CPHD filters for superpositional sensors," *IEEE Trans. Aero. Elect. Systems*, vol. 51, no. 4, pp. 2847 – 2863, Oct. 2015.
- [69] S.D. Gupta, M.J. Coates, and M. Rabbat, "Error Propagation in Gossip-Based Distributed Particle Filters," *IEEE Trans. Signal Info. Proc. over Networks*, vol. 1, no. 3, pp. 148-163, Sept. 2015.
- [70] S. Shaghaghian and M.J. Coates, "Optimal Forwarding in Opportunistic Delay Tolerant Networks with Meeting Rate Estimations", *IEEE Trans. Signal Info. Proc. over Networks*, vol. 1, no. 2, pp. 104-116, Jun. 2015. [C1] Y. Li, L. Zhao, M.J. Coates, "Particle Flow Auxiliary Particle Filter," in *Proc. IEEE Int. Workshop Comp. Adv. in Multi-Sensor Adaptive Processing (CAMSAP)*, Cancun, Mexico, Dec. 2015.
- [71] S. Datta Gupta, J.Y. Yu, M. Mallick, M.J. Coates, and M. Morelande. "Comparison of angle-only filtering algorithms in 3D using EKF, UKF, PF, PFF, and ensemble KF," *Proc. Int. Conf. Information Fusion (Fusion)*, Washington, DC, USA, June, 2015.
- [72] S. Datta Gupta, S. Nannuru, M.J. Coates, and M. Rabbat, "A distributed general multi-sensor cardinalized probability hypothesis density (CPHD) filter for sensor networks," in *Proc. SPIE Symp. Signal Processing, Sensor/Information Fusion, and Target Recognition*, Baltimore, Maryland, United States, Apr. 2015.
- [73] Y. Li, A. Santorelli, O. Laforest, and M.J. Coates, "Cost-sensitive Ensemble Classifiers for Microwave Breast Cancer Detection," in *Proc. IEEE Int. Conf. Acoustics, Speech and Sig. Proc. (ICASSP)*, Brisbane, Australia Apr. 2015.
- [74] B. Renard, M. Kharratzadeh, and M.J. Coates, "Online time-dependent clustering using probabilistic topic models," in *Proc. IEEE Int. Conf. Acoustics, Speech and Sig. Proc. (ICASSP)*, Brisbane, Australia Apr. 2015.
- [75] S. Nannuru, M.J. Coates, M. Rabbat, and S. Blouin "General solution and approximate implementation of the multisensor multitarget CPHD filter," in *Proc. IEEE Int. Conf. Acoustics, Speech and Sig. Proc. (ICASSP)*, Brisbane, Australia Apr. 2015.

COOPERSTOCK, JEREMY R.:

- [76] R. F. Hess, *L. To, J. Zhou, *G. Wang, and J.R. Cooperstock. "3D Vision: the haves and havenots." In: *i-Perception 6.3* (June 2015). url: <http://ipe.sagepub.com/content/6/3/2041669515593028.full.pdf+html>.
- [77] N. Hieda and J. R. Cooperstock. "Digital Facial Augmentation for Interactive Entertainment." In: *EAI Endorsed Transactions on e-Learning 15.8* (Aug. 2015). doi: 10.4108/icst.intetain.2015.259444.
- [78] J. Blum, I. Frissen, and J. R. Cooperstock. "Improving Haptic Feedback on Wearable Devices through Accelerometer Measurements." In: *User Interface Software and Technology (UIST)*. Charlotte, NC: ACM, Nov. 2015. url: <http://dl.acm.org/citation.cfm?id=2807474>.
- [79] D. El-Shimy and J. R. Cooperstock. "EmbodiNet: Enriching Distributed Musical Collaboration through Embodied Interactions." In: *IFIP TC13 Conference on Human-Computer Interaction (INTERACT)*. Bamberg, Germany, Sept. 2015.
- [80] V. Vuibert, W. Stuerzlinger, and J. R. Cooperstock. "Evaluation of docking task performance using mid-air interaction techniques." In: *Symposium on Spatial User Interaction*. Los Angeles, CA: ACM, Aug. 2015.
- [81] F. Tordini, A. Bregman, and J. R. Cooperstock. "The loud bird doesn't (always) get the worm: Why computational salience also needs brightness and tempo." In: *International Conference on Auditory Displays*. Graz, Austria, July 2015.
- [82] J. Anlauff, J. Fung, and J. R. Cooperstock. "Modular Haptic Belt for Augmented Balance Feedback." In: *International Society for Posture and Gait Research*. Seville, Spain, June 2015.
- [83] N. Hieda and J. R. Cooperstock. "sharedFace: Interactive Facial Projection Mapping." In: *International Conference and Exhibition of Virtual Technologies and Uses*. Laval, France, Apr. 2015.

EL-GAMAL, MOURAD N.:

- [84] M. Y. Elsayed, P. Cicek, F. Nabki, and M. N. El-Gamal, "Surface micromachined combined magnetometer / accelerometer for above-IC integration," *IEEE Journal of Microelectromechanical Systems (IEEE - JMEMS)*, vol. 24, no. 4, pp. 1029 - 1037, Aug. 2015.

- [85] M. Parvizi, K. Allidina, and M. N. El-Gamal, "Short channel output conductance enhancement through forward body biasing to realize a 0.5 V 250 μ W 0.6–4.2 GHz current-reuse CMOS LNA," *IEEE Journal of Solid-State Circuits (IEEE - JSSC)*, IEEE website early publication, pp. 1-13, December 2015.
- [86] K. Allidina, T. Khattab, and M. N. El-Gamal, "On dual peak detection UWB receivers in noise and interference dominated environments," *Elsevier International Journal of Electronics and Communications*, accepted, 11 pages, October 2015.
- [87] M. Y. Elsayed, P.-V. Cicek, F. Nabki, and M. N. El-Gamal, "Bulk mode disk resonator with transverse piezoelectric actuation and electrostatic tuning," *IEEE Journal of Microelectromechanical Systems (IEEE - JMEMS)*, IEEE website early publication, pp. 1-10, December 2015.
- [88] M. Parvizi, K. Allidina, and M. N. El-Gamal, "An ultra-low power wideband inductorless CMOS LNA with tunable active shunt-feedback," *IEEE Transactions on Microwave Theory and Techniques (IEEE - MTT)*, revision re-submitted for 2nd review, 9 pages, September 2015.
- [89] M. Parvizi, K. Allidina, and M. N. El-Gamal, "A sub-mW, ultra-low-voltage, wideband low-noise amplifier design technique," *IEEE Transactions on Very Large Scale Integration Systems (IEEE - VLSI)*, vol. 23, pp. 1111-1122, June 2015.

FERRIE, FRANK:

- [90] Wang, Ruisheng, and Ferrie, F.P., An Image-based Interpolation Method for Mobile LiDAR, *Journal of Applied Remote Sensing*, Vol. 9, No. 1, June 2015.
- [91] Wang, Ruisheng, and Ferrie, F.P., An Automatic Registration Method for Mobile LiDAR Data, *Optical Engineering*, Volume 54, No. 1, January 2015.
- [92] Abou-Moustafa, K.T., de la Torre, F., and Ferrie, F.P., "Pareto Models for Multiclass Discriminative Linear Dimensionality Reduction," *Pattern Recognition*, Vol. 48, Issue 5, May 2015, pp. 1863-1877.
- [93] Phan, Andrew, and Ferrie, F.P., Towards 3D Human Posture Estimation Using Multiple Kinects Despite Self-Contacts, *Proc. 14th IAPR International Conference on Machine Vision Applications*, Tokyo, Japan, May 18-22, 2015, pp. 567-571.
- [94] Mu, Yanyan, and Ferrie, F.P., Sparse Image Reconstruction by Two Phase RBM Learning: Application to Mine Planning, *Proc. 14th IAPR International Conference on Machine Vision Applications*, Tokyo, Japan, May 18-22, 2015, pp. 316-320.
- [95] St-Martin Cormier, O., Phan, A., and Ferrie, F.P., Situational Awareness for Manufacturing Applications, *Proc. 12th Conference on Computer and Robot Vision*, Halifax, Nova Scotia, June 3-5, 2015, pp. 320-327.

GIANNACOPOULOS, DENNIS:

- [96] Akbarzadeh-Sharbat* A, Giannacopoulos D D. (2015). A Stable and Efficient Direct Time Integration of the Vector Wave Equation in the Finite-Element Time-Domain Method for Dispersive Media. *IEEE Transactions on Antennas and Propagation*, vol. 63, no. 1, pp. 314-321, January 2015. (NSERC). DOI: 10.1109/TAP.2014.2368113.
- [97] Akbarzadeh-Sharbat* A, Giannacopoulos D D. (2015). Novel hybrid FETD-FDTD formulations for dispersive media. *IEEE Transactions on Magnetics*, vol. 51, no. 3, pp. 1-4, March 2015. (NSERC). DOI: 10.1109/TMAG.2014.2355593.
- [98] Abraham* D S, Giannacopoulos D D. (2015). Dispersive Möbius Transform Finite Element Time Domain Method on Graphics Processing Units. *IEEE Transactions on Magnetics*, vol. PP, no. 99, pp. 1-4, October 2015. (NSERC). DOI: 10.1109/TMAG.2015.2488641.
- [99] Afshar* F, Akbarzadeh-Sharbat* A, Giannacopoulos D. (2015). A Provably Stable and Simple FDTD Formulation for Electromagnetic Modeling of Graphene Sheets. *IEEE Trans. on Magnetics*, vol. PP), no. 99, pp. 1-4, Oct. 2015. (NSERC). DOI: 10.1109/TMAG.2015.2487835.
- [100] El-Kurdi* Y, Fernández* D, Gross W J, Giannacopoulos D. (2015). Acceleration of the Finite Element Gaussian Belief Propagation Solver Using Minimum Residual Techniques. *IEEE Transactions on Magnetics*, vol. PP, no. 99, pp. 1-4, October 2015. (NSERC). DOI: 10.1109/TMAG.2015.2487683
- [101] Akbarzadeh-Sharbat* A, Giannacopoulos D D. (2015). Second-Order Uniaxial Perfectly Matched Layer for Finite-Element Time-Domain Methods. *20th International Conference on the Computation of Electromagnetic Fields (Compumag 2015)*, pp. PD3:12 1-2, Montreal, Canada, June 28 - July 2, 2015.

- [102] Ren D Q, Wei Z, Giannacopoulos D D. (2015). A MapReduce and MPI Programming Model for Distributed Large Scale 3D Mesh Processing. 20th International Conference on the Computation of Electromagnetic Fields (Compumag 2015), pp. PB3:7 1-2, Montreal, Canada, June 28 - July 2, 2015.
- [103] Afshar* F, Akbarzadeh-Sharbat* A, Giannacopoulos D D. (2015). A Provably Stable and Simple FDTD Formulation for Electromagnetic Modeling of Graphene Sheets. 20th International Conference on the Computation of Electromagnetic Fields (Compumag 2015), pp. OA6:3 1-2, Montreal, Canada, June 28 - July 2, 2015.
- [104] Abraham* D, Giannacopoulos D D. (2015). Dispersive Möbius Transform Finite Element Time Domain Method on Graphics Processing Units. 20th International Conference on the Computation of Electromagnetic Fields, pp. PB5:16 1-2, Montreal, Canada, June 28 - July 2, 2015.
- [105] Akbarzadeh-Sharbat* A, Giannacopoulos D D. (2015). Uniaxial PML in Spherical and Cylindrical Coordinates for Finite Element Time-Domain Formulations. 20th International Conference on the Computation of Electromagnetic Fields (Compumag 2015), pp. PB5:15 1-2, Montreal, Canada, June 28 - July 2, 2015.

GROSS, WARREN J.:

- [106] N. Onizawa, D. Katagiri, K. Matsumiya, W. J. Gross, and T. Hanyu, "Gabor Filter Based on Stochastic Computation," *IEEE Signal Processing Letters*, vol. 22, no. 9, pp. 1224-1228, September 2015.
- [107] H. *Jarollahi, V. *Gripon, N. *Onizawa, and W. J. Gross, "Algorithm and Architecture for a Low-Power Content-Addressable Memory Based on Sparse Clustered Networks," *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, vol. 23, no. 4, pp. 642-653, April 2015.
- [108] P. *Giard, G. *Sarkis, C. Thibeault, and W. J. Gross, "237 Gbit/s Unrolled Hardware Polar Decoder," *Electronics Letters*, vol. 51, no. 10, pp. 762-763, May 14 2015.
- [109] Y. *El-Kurdi, M. M. Dehnavi, W. J. Gross, and D. Giannacopoulos, "Parallel Finite Element Technique Using Gaussian Belief Propagation," *Computer Physics Communications*, vol. 193, no. pp. 38-40, August 2015.
- [110] G. *Sarkis and W. J. Gross, "Implementation of Polar Decoders," in *Advanced Hardware Design for Error Correcting Codes*, P. Coussy and C. Chavet, Eds., Springer, 2015, pp. 33-45. (invited)
- [111] F. *Leduc-Primeau, V. C. Gaudet, and W. J. Gross, "Stochastic Decoders for LDPC Codes," in *Advanced Hardware Design for Error Correcting Codes*, P. Coussy and C. Chavet, Eds., Springer, 2015 pp. 105-128. (invited)
- [112] N. Onizawa, D. Katagiri, K. Matsumiya, W. J. Gross, and T. Hanyu, "Frequency-Flexible Stochastic Gabor Filter," *Proceedings of the 2015 IEEE International Conference on Digital Signal Processing (DSP 2015)*, Singapore, July 21-24, 2015, pp. 458-462. (invited)
- [113] R. Danilo, V. Gripon, P. Coussy, L. Conde-Canencia, and W. J. Gross, "Restricted Clustered Neural Network for Storing Real Data," *Proceedings of the Great Lakes Symposium on VLSI (GLSVLSI 2015)*, Pittsburgh, PA,, May 20-22, 2015.
- [114] R. Danilo, H. *Jarollahi, V. Gripon, P. Coussy, L. Conde-Canenciay, and W. J. Gross, "Algorithm and Implementation of an Associative Memory for Oriented Edge Detection Using Improved Clustered Neural Networks," *Proceedings of the IEEE International Symposium on Circuits and Systems (ISCAS 2015)*, Lisbon, Portugal, May 24-27, 2015, pp. 2501-2504.
- [115] R. Danilo, H. *Jarollahi, V. Gripon, P. Coussy, L. Conde-Canencia, and W. J. Gross, "Algorithm and Implementation of an Associative Memory for Oriented Edge Detection Using Improved Clustered Neural Networks," *Proceedings of the 2nd International Workshop on Neuromorphic and Brain-Based Computing Systems (NeuComp 2015)*, Grenoble, France, March 13, 2015.
- [116] G. Cowan, K. Cushon, and W. Gross, "Mixed-Signal Implementation of Differential Decoding using Binary Message Passing Algorithms," *Proceedings of the 26th IEEE International Conference on Application-specific Systems, Architectures and Processors (ASAP 2015)*, Toronto, On, July 27-29, 2015, pp. 116-119.
- [117] A. J. *Wong, S. *Hemati, and W. J. Gross, "Efficient Implementation of Structured Long Block-Length LDPC Codes," *Proceedings of the 26th IEEE International Conference on Application-specific Systems, Architectures and Processors (ASAP 2015)*, Toronto, On, July 27-29, 2015, pp. 234-238.
- [118] F. *Leduc-Primeau, F. R. Kschischang, and W. J. Gross, "Energy Optimization of LDPC Decoder Circuits with Timing Violations," *Proceedings of the IEEE International Conference on Communications (ICC 2015)* London, UK, June 8-12, 2015, pp. 412-417.

- [119] S. A. *Hashemi and W. J. Gross, "List Sphere Decoding of Polar Codes," Proceedings of the 49th Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA, November 8-11, 2015. (invited)
- [120] P. *Giard, G. *Sarkis, C. Thibeault, and W. J. Gross, "A 638 Mbps Low-Complexity Rate 1/2 Polar Decoder on FPGAs," Proceedings of the 2015 IEEE International Workshop on Signal Processing Systems (SiPS 2015), Hangzhou, China, October 14-16, 2015, pp. 1-6.
- [121] Y. *El-Kurdi, D. *Fernández, W. J. Gross, and D. Giannacopoulos, "Acceleration of the Finite Element Gaussian Belief Propagation Solver Using Minimum Residual Techniques," Proceedings of Compumag 2015, Montreal, June 28 - July 2, 2015.
- [122] C. *Condo and W. J. Gross, "Sparse Superposition Codes: a Practical Approach," Proceedings of the 2015 IEEE International Workshop on Signal Processing Systems (SiPS 2015), Hangzhou, China, October 14-16, 2015, pp. 1-6.
- [123] K. *Boga, N. Onizawa, F. *Leduc-Primeau, K. Matsumiya, T. Hanyu, and W. J. Gross, "Stochastic Implementation of the Disparity Energy Model for Depth Perception," Proceedings of the 2015 IEEE Workshop on Signal Processing Systems (SiPS 2015), Hangzhou, China, October 14-16, 2015, pp. 1-6.

JOOS, GEZA:

- [124] Rimorov, D.; Kamwa, I.; Joos, G. (2015), "Model-based tuning approach for multi-band power system stabilisers PSS4B using an improved modal performance index," in Generation, Transmission & Distribution, IET , vol.9, no.15, pp.2135-2143.
- [125] Mascarella, D.; Venne, P.; Guerette, D.; Joos, G. (2015), "Flicker Mitigation via Dynamic Volt/VAR Control of Power-Electronic Interfaced WTGs," in Power Delivery, IEEE Transactions on , vol.30, no.6, pp.2451-1459.
- [126] Mishra, D.P.; Samantaray, S.R.; Joos, G. (2015), "A Combined Wavelet and Data-Mining Based Intelligent Protection Scheme for Microgrid,," IEEE Transactions on Smart Grids.
- [127] Rimorov, D.; Kamwa, I.; Joos, G., "Coordinated design of active and reactive power modulation auxiliary loops of wind turbine generators for oscillation damping in power systems," in Power & Energy Society General Meeting, 2015 IEEE , vol., no., pp.1-5, 26-30 July 2015.
- [128] Mascarella, D.; Li, S.; Joos, G.; Venne, P., "Reactive power coordination in DFIG based wind farms for voltage regulation & flicker mitigation," in Power & Energy Society General Meeting, 2015 IEEE , vol., no., pp.1-5, 26-30 July 2015.
- [129] Mascarella, D.; Chlela, M.; Joos, G.; Venne, P., "Real-time testing of power control implemented with IEC61850 GOOSE messaging in wind farms featuring energy storage," in Energy Conversion Congress and Exposition (ECCE), 2015 IEEE , vol., no., pp.6710-6715, 20-24 Sept. 2015
- [130] Ali, S.Q.; Mascarella, D.; Joos, G.; Coulombe, T.; Cyr, J.-M., "Three Phase High Power Integrated Battery Charger for Plugin Electric Vehicles," in Vehicle Power and Propulsion Conference (VPPC), 2015 IEEE, vol., no., pp.1-6, 19-22 Oct. 2015
- [131] Bhattacharya, S.; Mascarella, D.; Joos, G.; Moschopoulos, G., "Reduced switching random PWM technique for two-level inverters," in Energy Conversion Congress and Exposition (ECCE), 2015 IEEE , vol., no., pp.695-702, 20-24 Sept. 2015
- [132] Bhattacharya, S.; Mascarella, D.; Joos, G.; Moschopoulos, G., "A discrete random PWM technique for acoustic noise reduction in electric traction drives," in Energy Conversion Congress and Exposition (ECCE), 2015 IEEE , vol., no., pp.6811-6817, 20-24 Sept. 2015
- [133] Ali, S.Q.; Mascarella, D.; Joos, G.; Moschopoulos, G., "Circulating current minimization for dual three-phase motor integrated battery charger," in Energy Conversion Congress and Exposition (ECCE), 2015 IEEE , vol., no., pp.3651-3658, 20-24 Sept. 2015
- [134] Ali, S.Q.; Bhattacharya, S.; Mascarella, D.; Joos, G., "Thermal management during stalled rotor by conduction loss redistribution," in Transportation Electrification Conference and Expo (ITEC), 2015 IEEE , vol., no., pp.1-6, 14-17 June 2015
- [135] Haihao Jiang; Can Wang; Joos, G.; Ooi, B.T., "Computationally efficient method for simulating Multi-Terminal MMC-HVDC", Power & Energy Society General Meeting, 2015 IEEE.
- [136] Fei Zhang; Joos, G.; Wei Li; Belanger, J., "A validation methodology for real time model of modular multilevel converter", Energy Conversion Congress and Exposition (ECCE), 2015 IEEE.
- [137] Fei Zhang; Joos, G., "A predictive nearest level control of modular multilevel converter", Applied Power Electronics Conference and Exposition (APEC), 2015 IEEE.

KHAZAKA, RONI:

- [138] Y. Q. Xiao, M. Kabir, M. Kassis, and R. Khazaka, "Passive Reduced Order Macromodeling Based on Admittance Parameter Using Hamiltonian-Symplectic Matrix Pencil Perturbation" 2015 IEEE International Conference on Ubiquitous Wireless Broad Band, Oct 2015. pp. 1-4.
- [139] M. Ahadi, M. Kabir, S. Roy and R. Khazaka, "Fast Multidimensional Statistical Analysis of Microwave Networks via Stroud Cubature Approach", IEEE MTT-S International Conference on Numerical Electromagnetic and Multi-physics Modeling and Optimization pp. 1-3, Aug. 2015.
- [140] N. Abou-Ziki and R. Khazaka, "Steady-State Simulation Based on A- and L-Stable High Order Time-Domain Integration Method for RF Applications", IEEE MTT-S International Conference on Numerical Electromagnetic and Multi-physics Modeling and Optimization pp. 1-3, Aug. 2015.
- [141] M. Kassis, M. Kabir and R. Khazaka, "Passive Reduced Order Macromodeling using Hamiltonian Matrix Pencil Perturbation", IEEE MTT-S International Conference on Numerical Electromagnetic and Multi-physics Modeling and Optimization pp. 1-3, Aug. 2015.

KIRK, ANDREW:

- [142] M.I.Cheema* and A.G.Kirk , Analytical expressions for wave-guide coupled phase shift microcavity ring down spectroscopy, *JOSA B*, 32 (2), pp 355-362, 2015. M. I. Cheema*, C. Shi, A. M. Armani, and A. G. Kirk, 'Optimizing the signal to noise ratio of microcavity sensors, *IEEE Photonics Technology Letters*, 26 (20), pp 2023-2026, 2014
- [143] F.Soltani*, M.Menard, A.G.Kirk, 'Low-power 20Gb/s Modulator with an Integrated Loop Mirror', *Proc. Asia Communications and Photonics Conference*. (OSA Publishing), paper ASu5B.3, Hong Kong, China, Nov. 2015
- [144] M.T. Borojerdj*, M Menard, A.G.Kirk, 'Implementation of integrated bandwidth tunable optical add-drop filter using contra directional grating assisted couplers', *Proc. IEEE Photonics Conference*, pp 355-356, Reston VA, Oct. 2015
- [145] S.Filion-Cote*, M.Tabrizian, A.G Kirk, 'Surface plasmon resonance biosensor as a tool for the measurement of complex refractive indices', *Proc. IEEE Engineering in Medicine and Biology Society (EMBC)*, 2015 37th Annual International Conference, pp 6413-6416, Milan (Italy), Aug 2015
- [146] F.Soltani*, M.Menard, A.G.Kirk, 'Optical Modulator with an Integrated Loop Mirror', *Proc. IEEE Optical Interconnects Conference*, April 20-22, San Diego, USA, 2015
- [147] A. Abumazwed*, W. Kubo, T. Tanaka, A. G. Kirk, 'Numerical and experimental investigation of plasmonic properties of silver nanocrescent structures for sensing applications', *Proc. SPIE 9371, Photonic and Phononic Properties of Engineered Nanostructures V*, 937127-937127-7, San Francisco, CA, Feb 2015

LABEAU, FABRICE:

- [148] Haghghi, L. Szczecinski and F. Labeau, Truncated HARQ-Based Multi-Hop Systems: Outage and Related Performance Metrics, *IEEE Transactions on Communications*, Vol. 63, No. 10, October 2015, pp. 3525-3536 .
- [149] D. Bracco and F. Labeau, Electronic Health Record: What Do You Expect From Them?, *Critical Care Medicine*, Vol. 43, No. 6, June 2015, pp. 1342-1344.
- [150] H. Daou and F. Labeau, EEG Compression of Scalp Recordings based on Dipole Fitting, *IEEE Journal of Biomedical and Health Informatics*, Vol. 19, No. 3, May 2015, pp. 995-1008.
- [151] N. Zhang, G. Kang, J. Wang, Y. Guo and F. Labeau, Resource Allocation in a New Random Access for M2M Communications, *IEEE Communication Letters*, Vol. 19, No. 5, May 2015, pp. 843-846.
- [152] G. Kang, X. Liu, N. Zhang, Y. Guo and F. Labeau, Critical Density for Exposure-Path Prevention in Three-Dimensional Wireless Sensor Networks Using Percolation Theory, *International Journal of Distributed Sensor Networks*, May 2015.
- [153] D. Lin, F. Labeau and A. Vasilakos, QoE-based optimal resource allocation in wireless healthcare networks: opportunities and challenges, *Wireless Networks*, Vol. 2015, March 2015, pp. 1-18.
- [154] M. Jabi, L. Szczecinski, M. Benjilali and F. Labeau, Outage Minimization via Power Adaptation and Allocation for Truncated Hybrid ARQ, *IEEE Transactions on Communications*, Vol. 63, No. 3, March 2015, pp. 711-723.
- [155] D. Lin, X. Wu, F. Labeau and A. Vasilakos, Internet of Vehicles for E-Health Applications in View of EMI on Medical Sensors, *Journal of Sensors*, Vol. 2015, March 2015, Article ID 315948.

- [156] X. Wu, N. Fu and F. Labeau, Relay-Based Cooperative Spectrum Sensing Framework Under Imperfect Channel Estimation, *IEEE Communication Letters*, Vol. 19, No. 2, February 2015, pp. 239-242.
- [157] F. Labeau, A. Agarwal and B. Agba, Comparative Study of Wireless Sensor Network Standards for application in , in *Proc. IEEE International Conference on Computing, Communications and Systems (ICCCS)*, December 2015.
- [158] M. Alam and F. Labeau, Performance Analysis of DF Cooperative Relaying Over Bursty Impulsive Noise Channel, in *Proc. IEEE Smart Grid Communications Conference (SmartGridComm)*, November 2015.
- [159] H. Mahboubi and F. Labeau, Deployment algorithms for Coverage Improvement in a Network of Mobile, in *Proc. IEEE Sensors*, November 2015.
- [160] E. Xu and F. Labeau, Impact Evaluation of Noise Uncertainty in Spectrum Sensing under Middleton Class A Noise, in *Proc. IEEE Malaysia International Conference on Communications (MICC)*, November 2015.
- [161] P. Potvin, M. Nabaee, F. Labeau, K. Nguyen and M. Cheriet, Micro Service Cloud Computing Pattern for Next Generation Networks, in *Proc. EAI International Conference on Smart Sustainable City Technologies (S2CT)*, October 2015.
- [162] H. Mahboubi and F. Labeau, Distributed Deployment Strategies for Prioritized Coverage of a Field under Measurement Error and Limited Communication Capabilities, in *Proc. IEEE Vehicular Technology Conference (Fall)*, September 2015.
- [163] X. Wu, W. Zhao, F. Labeau and X. Sha, SLNR Beamforming Based Iterative Power Allocation in TD-LTE-A Downlink, in *Proc. IEEE International Wireless Communications & Mobile Computing Conference*, No. 0, September 2015, pp. 84-89.
- [164] J. Haghghat, F. Labeau, D. Plant and S. Naderi, Reduced complexity joint decoding for turbo-coded wireless sensor networks, in *Proc. Iranian Conference on Electrical Engineering (ICEE)*, May 2015, pp. 151-161.
- [165] H. Mahboubi, M. Vaezi and F. Labeau, Sensors Deployment Algorithms Under Limited Communication Range and Measurement Error, in *Proc. IEEE Vehicular Technology Conference (Spring)*, May 2015, 5 pages.
- [166] O. Delgado and F. Labeau, Uplink load balancing over multipath heterogeneous wireless networks, in *Proc. IEEE Vehicular Technology Conference (Spring)*, May 2015, 5 pages

LEIB, HARRY:

- [167] M. H. Azmi, H. Leib, "Coded collaborative spectrum sensing with joint channel decoding and decision fusion", *IEEE Trans. on Wireless Communications*, Vol. 14, No. 4, pp. 2017-2031, April 2015. (6 reads on Research Gate, and 1 citation (excluding self citation) during 2015)
- [168] H. Leib, W. Lin, "Performance analysis of multi-input multi-output systems with maximum likelihood detection over shadowed fading channels", *International Journal of Communication Systems*, (Wiley), Vol. 28, No. 1, pp. 779-800, Jan. 2015. (4 reads on Research Gate and 1 citation (excluding self citation) during 2015).
- [169] T. Chen, H. Leib, "GPU Acceleration for Fixed Complexity Sphere Decoder in Large MIMO Uplink Systems", *IEEE Canadian Conference on Electrical and Computer Eng. (CCECE 2015)*, Halifax, Nova Scotia, Canada, May 2015, pp. 771-777. (48 reads on Research Gate during 2015)

LE-NGOC, THO:

- [170] S. P. Herath, Nghi H. Tran, Tho Le-Ngoc, "Optimal Signaling Scheme and Capacity Limit of PLC under Bernoulli-Gaussian Impulsive Noise", *IEEE Transactions on Power Delivery*, Vol. 30, No. 1, February 2015, pp. 97-105
- [171] Seong Hwan Kim, Dan Keun Sung, Tho Le-Ngoc, "Variable-Length Feedback Codes under a Strict Delay Constraint", *IEEE Communications Letters*, Vol. 19, No. 4, April 2015, pp. 513-516
- [172] Nghi H. Tran, Leonardo Jimenez Rodriguez, Tho Le-Ngoc, "Optimal Power Control and Error Performance for Full-Duplex Dual-Hop AF Relaying under Residual Self-Interference", *IEEE Communications Letters*, Vol. 19, No. 2, February 2015, pp.291-294
- [173] Sean Huberman, Tho Le-Ngoc, "MIMO Full-Duplex Precoding: A Joint Beamforming and Self-Interference Cancellation Structure", *IEEE Transactions on Wireless Communications*, Vol. 14, No. 4, April 2015, pp.2205-2217

- [174] Ruikai Mai, Duy H. N. Nguyen, Tho Le-Ngoc, "Linear Precoding Game for MIMO-MAC with Dynamic Access Point Selection", IEEE Wireless Communications Letters, Vol. 4, No. 2, April 2015, pp.153-156
- [175] Vikas Jumba, Saeedeh Parsaeefard, Mahsa Derakhshani, Tho Le-Ngoc, "Resource Provisioning in Wireless Virtualized Networks via Massive-MIMO", IEEE Wireless Communications Letters, Vol. 4, No. 3, March 2015, pp. 237 - 240
- [176] Sean Huberman, Tho Le-Ngoc, "Self-Interference-Threshold-Based MIMO Full-Duplex Precoding", IEEE Transactions on Vehicular Technology, Vol. 64, No. 8, August 2015, pp. 3803-3807
- [177] Long Bao Le, Vincent Lau, Eduard Jorswieck, Ngoc-Dung Dao, Afshin Haghighat, Dong In Kim, Tho Le-Ngoc, "Enabling 5G mobile wireless technologies", EURASIP Journal on Wireless Communications and Networking, September 2015, pp. 1-14, DOI 10.1186/s13638-015-0452-9
- [178] Duy H. N. Nguyen, Long Bao Le, Tho Le-Ngoc, "Multiuser Admission Control and Beamforming Optimization Algorithms for MISO Heterogeneous Networks", IEEE Access, Vol.3, 2015, pp. 759 - 773
- [179] Hung V. Vu, Nghi H. Tran, Mustafa Cenk Gursoy, Tho Le-Ngoc, S. I. Hariharan, "Capacity-Achieving Input Distributions of Additive Quadrature Gaussian-Mixture Noise Channels," IEEE Transactions on Communications, Vol. 63, No. 10, October 2015, pp. 3607-3620
- [180] Saeedeh Parsaeefard, Tho Le-Ngoc, "Improving Wireless Secrecy Rate via Full-Duplex Relay-Assisted Protocols", IEEE Transactions on Information Forensics & Security, Vol. 10, No. 10, October 2015, pp. 2095-2107
- [181] Sean Huberman, Tho Le-Ngoc, "Full-Duplex MIMO Precoding for Sum-Rate Maximization with Sequential Convex Programming", IEEE Transactions on Vehicular Technology, Vol. 64, No. 11, November 2015, pp. 5103-5112
- [182] Seong Hwan Kim, Tumula V. K. Chaitanya, Tho Le-Ngoc, Junsu Kim, "Rate Maximization Based Power Allocation and Relay Selection with IRI Consideration for Two-Path AF Relaying", IEEE Transactions on Wireless Communications, Vol. 14, No. 11, November 2015, pp. 6012-6027.
- [183] Sanjeewa P. Herath, Duy H. N. Nguyen, Tho Le-Ngoc, "Vector Perturbation Precoding for Multi-User CoMP Downlink Transmission", IEEE Access, Vol.3, 2015, pp.1491-1502
- [184] Leonardo Jimenez Rodriguez, Nghi H. Tran, Trung Q. Duong, Tho Le-Ngoc, Maged ElKashlan, Sachin Shetty, "Physical Layer Security in Wireless Cooperative Relay Networks: State-Of-The-Art and Beyond", IEEE Communications Magazine, December 2015, pp.32-39
- [185] Ahmed Masmoudi, Tho Le-Ngoc, "Self-Interference Cancellation For Full-Duplex MIMO Transceivers", IEEE WCNC 2015, March 9-12,2015, New Orleans, LA, USA
- [186] Ruikai Mai, Duy H. N. Nguyen, Tho Le-Ngoc, "Joint Access Point Selection and Linear Precoding Game for MIMO Multiple-Access Channels", IEEE WCNC 2015, March 9-12,2015, New Orleans, LA, USA
- [187] Sanjeewa Herath, Duy H. N. Nguyen, Tho Le-Ngoc, "Non-Linear Vector-Perturbation Precoding for Multi-User Downlink Under Quantized CSI", IEEE WCNC 2015, March 9-12,2015, New Orleans, LA, USA
- [188] Tumula V. K. Chaitanya, Tho Le-Ngoc, "Adaptive Power Allocation for Chase Combining HARQ based Low-Complexity MIMO Systems", IEEE WCNC 2015, March 9-12,2015, New Orleans, LA, USA
- [189] Duy H. N. Nguyen, Long Bao Le, Tho Le-Ngoc, "Multiuser MISO Precoding for Sum-rate Maximization under Multiple Power Constraints", IEEE WCNC 2015, March 9-12,2015, New Orleans, LA, USA
- [190] Saeideh Parsaeifard, Tho Le-Ngoc, "Secrecy Rate with Friendly Full-Duplex Relay", IEEE WCNC 2015, March 9-12,2015, New Orleans, LA, USA
- [191] Saeedeh Parsaeefard, Vikas Jumba, Mahsa Derakhshani, Tho Le-Ngoc, "Joint Resource Provisioning and Admission Control in Wireless Virtualized Networks", IEEE WCNC 2015, March 9-12,2015, New Orleans, LA, USA
- [192] Duy H. N. Nguyen, Long Bao Le, Tho Le-Ngoc, "Optimal Joint Base Station Association and Beamforming Design for Downlink Transmission", IEEE International Conference on Communications, ICC 2015, June 8-12, 2015, London, UK
- [193] Tuong Duc Hoang, Long Bao Le, Tho Le-Ngoc, "Energy-Efficient Resource Allocation for D2D Communications in Cellular Networks", IEEE International Conference on Communications, ICC 2015, June 8-12, 2015, London, UK
- [194] Hung V. Vu, Nghi H. Tran, Tho Le-Ngoc, "Capacity-Achieving Distributions of Impulsive Ambient Noise Channels", IEEE International Conference on Communications, ICC 2015, June 8-12, 2015, London, UK

- [195] Khoa T. Phan, Tho Le-Ngoc, "Adaptive Link Selection in Buffer-Aided Relaying with Statistical QoS Constraints", IEEE International Conference on Communications, ICC 2015, June 8-12, 2015, London, UK
- [196] Quang-Dung Ho, Yue Gao, Gowdemy Rajalingham, Tho Le-Ngoc, "Robustness of the Routing Protocol for Low-power and Lossy Networks (RPL) in Smart Grid's Neighbor-Area Networks", IEEE International Conference on Communications, ICC 2015, June 8-12, 2015, London, UK
- [197] Ahmed Masmoudi, Tho Le-Ngoc, "A Digital Subspace-Based Self-Interference Cancellation in Full-Duplex MIMO Transceivers", IEEE International Conference on Communications, ICC 2015, June 8-12, 2015, London, UK
- [198] Quang-Dung Ho, Anh-Tuan Dang, Tho Le-Ngoc, "A Ubiquitous Multiple-radio Patient Vital Sign Capture Platform", IEEE ICC 2015 - Workshop on ICT-enabled services and technologies for eHealth and Ambient Assisted Living, ICC15 - Workshops 08, June 8-12, 2015, London, UK
- [199] Hung V. Vu, Nghi H. Tran, Mustafa Cenk Gursoy, Tho Le-Ngoc, S. I. Hariharan, "Characterization of Optimal Input Distributions for Gaussian-Mixture Noise Channels", 14th Canadian Workshop on Information Theory (CWIT 2015), July 6-9, 2015, St. John's, NL, Canada
- [200] Xiaowei Wang, Mahsa Derakhshani, Tho Le-Ngoc, "Exploiting Multi-User Diversity in Wireless LANs with Channel-Aware CSMA/CA", 2015 IEEE 26th International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC15), Aug 30 - Sept 2, 2015, Hong Kong
- [201] Vikas Jumba, Saeedeh Parsaeefard, Mahsa Derakhshani, Tho Le-Ngoc, "Dynamic Resource Provisioning with Stable Queue Control for Wireless Virtualized Networks", 2015 IEEE 26th International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC15), Aug 30 - Sept 2, 2015, Hong Kong
- [202] Atoosa Dalili Shoaiei, Mahsa Derakhshani, Saeedeh Parsaeefard, Tho Le-Ngoc, "Learning-based Hybrid TDMA-CSMA MAC Protocol for Virtualized 802.11 WLANs", 2015 IEEE 26th International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC15), Aug 30 - Sept 2, 2015, Hong Kong
- [203] Tumula V. K. Chaitanya, , Tho Le-Ngoc, "Progressive Hybrid Precoder Design for Packet Retransmissions in Large-Scale MIMO Systems", 2015 IEEE 26th International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC15), Aug 30 - Sept 2, 2015, Hong Kong
- [204] Ruozhu Li, Ahmed Masmoudi, Tho Le-Ngoc, "Self-Interference Cancellation with Phase-noise Suppression in Full-Duplex Systems", 2015 IEEE 26th International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC15), Aug 30 - Sept 2, 2015, Hong Kong
- [205] Imtiaz Ahmed, Khoa Tran Phan, Tho Le-Ngoc, "Stochastic User Scheduling and Power Control for Energy Harvesting Networks with Statistical Delay Provisioning", 2015 IEEE 26th International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC15), Aug 30 - Sept 2, 2015, Hong Kong
- [206] Hoa Tran Phan, Tho Le-Ngoc, "Buffer-Aided Full-Duplex Relaying with Residual Self-Interference and Statistical Delay Provisioning", 2015 IEEE 26th International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC15), Aug 30 - Sept 2, 2015, Hong Kong
- [207] Tuong Duc Hoang, Long Bao Le, Tho Le-Ngoc, "Radio Resource Management for Optimizing Energy Efficiency of D2D Communications in Cellular Networks", 2015 IEEE 26th International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC15), Aug 30 - Sept 2, 2015, Hong Kong
- [208] Rajesh Dawadi, Saeedeh Parsaeefard, Mahsa Derakhshani, Tho Le-Ngoc, "Energy-Efficient Resource Allocation in Multi-cell Virtualized Wireless Networks", The 15th IEEE International Conference on Ubiquitous Wireless Broadband (IEEE ICUWB 2015), Workshop on Next Generation of Green ICT and 5G Networking (GreeNets), Montreal, October 4-7, 2015
- [209] Vikas Jumba, Saeedeh Parsaeefard, Mahsa Derakhshani, Tho Le-Ngoc, "Energy-Efficient Robust Resource Provisioning in Virtualized Wireless Networks", The 15th IEEE International Conference on Ubiquitous Wireless Broadband (IEEE ICUWB 2015), Workshop on Next Generation of Green ICT and 5G Networking (GreeNets), Montreal, October 4-7, 2015
- [210] Lan K. Nguyen, Richard B. Wells, Tho Le-Ngoc, "Power Allocation for Shared and Frequency Hopped Transponder", MILCOM 2015, October 26-28, 2015, Tampa, Florida, USA
- [211] Tuong Duc Hoang, Long Bao Le, Tho Le-Ngoc, "Dual Decomposition Method for Energy-Efficient Resource Allocation in D2D Communications Underlying Cellular Networks", IEEE GLOBECOM 2015, December 6-10, 2015, San Diego, CA, USA

- [212] ran Khoa Phan, Tho Le-Ngoc, Long Bao Le, "Relay Selection, Link Scheduling, and Rate Allocation in Dual-Hop Buffer-Aided Networks with Statistical Delay Constraints", IEEE GLOBECOM 2015, December 6-10, 2015, San Diego, CA, USA
- [213] Imtiaz Ahmed, Tran Khoa Phan, Tho Le-Ngoc, "Optimal Stochastic Power Control for Energy Harvesting Systems with Statistical Delay Constraint", IEEE GLOBECOM 2015, December 6-10, 2015, San Diego, CA, USA
- [214] Yahya Khan, Mahsa Derakhshani, Saeedeh Parsaeefard, Tho Le-Ngoc, "Self-Organizing TDMA MAC Protocol for Effective Capacity Improvement in IEEE 802.11 WLANs", IEEE GC 2015 Workshop on Enabling Technologies in Future Wireless Local Area Network (ETFWLALN), December 6-10, 2015, San Diego, CA, USA
- [215] Mahsa Derakhshani, Xiaowei Wang, Tho Le-Ngoc, Alberto Leon-Garcia, "Airtime Usage Control in Virtualized Multi-Cell 802.11 Networks", IEEE GC 2015 Workshop on Advances in Software Defined Radio Access Networks and Context-aware Cognitive Networks (SDRANCAN-2015), December 6-10, 2015, San Diego, CA, USA
- [216] Leonardo Jimenez Rodriguez, Nghi Tran, Tho Le-Ngoc, Amplify-and-Forward Relaying in Wireless Communications, SpringerBriefs in Wireless Communications, Springer, 2015.
- [217] Quang-Dung Ho, Tho Le-Ngoc, "An Integrated Wireless Communication Platform for End-to-End and Automatic Wireless Vital Sign Capture Using Personal Smart Mobile Devices", Chapter 38 in Mobile Health (mHealth): The Technology Road Map (Editor-in-Chief: Sasan Adibi), Springer, 2015.
- [218] Sean Huberman, Tho Le-Ngoc, "Dynamic Spectrum Management Algorithms for Multiuser Communication Systems", Chapter 12 in Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management, Naima Kaabouch and Wen-Chen Hu, (Editors), IGI Global, 2015
- [219] Mahsa Derakhshani, Tho Le-Ngoc, Masoumeh Nasiri-Kenari, "Cyclostationary Spectrum Sensing in Cognitive Radios at Low SNR Regimes", Chapter 5 in Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management, Naima Kaabouch and Wen-Chen Hu, (Editors), IGI Global, 2015
- [220] Mahsa Derakhshani, Tho Le-Ngoc, "Interference Statistics and Capacity-Outage Analysis in Cognitive Radio Networks", Chapter 27 in Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management, Naima Kaabouch and Wen-Chen Hu, (Editors), IGI Global, 2015
- [221] Tumula V. K. Chaitanya, Tho Le-Ngoc, Erik G. Larsson, "Energy-Efficient Power Allocation for HARQ Systems", Chapter 8 in Handbook of Research on Next Generation Mobile Communication Systems, Athanasios D. Panagopoulos (Editor), IGI Global, 2015

LEVINE, MARTIN:

- [222] Roshtkhari, Mehrsan Javan & Martin D. Levine, Tracking Without Appearance Descriptors" Handbook of Pattern Recognition and Computer Vision, 5th Edition, Edited by: C H Chen, Dec. 2015, Chapter 2-3, pp. 239-254.
- [223] Zhang, Q., Wang, Y., Levine, M. D., Yuan, X., & Wang, L., Multisensor Video Fusion Based On Higher Order Singular Value Decomposition, Information Fusion, 2015, 24, 54-71.

LIBOIRON-LADOUCEUR, ODILE:

- [224] M.S. Hai*, M. Ménard, and O. Liboiron-Ladouceur, "Integrated optical deserialiser time sampling based SiGe photoreceiver," OSA Optics Express, 23(25), pp. 31736-54, 15 Dec. 2015.
- [225] B. Banan*, R. Niall Tait, O. Liboiron-Ladouceur, and P. Berini, "Fabrication of metal strip waveguides for optical and microwave data transmission," J. of Vacuum Science & Technology B, 33(6), Nov/Dec 2015.
- [226] M.S. Hai*, A. Leinse, T. Veenstra, and O. Liboiron-Ladouceur, "A thermally tunable 1x4 channel wavelength demultiplexer designed on a low-loss Si₃N₄ waveguide platform," MDPI Photonics, 2(4), 1065-1080, November 2015.
- [227] M. Moayedi Pour Fard*, G. Cowan, and O. Liboiron-Ladouceur, "Analysis of Low-Bit Soft-Decision Error Correction in Optical Front Ends," OSA J. of Opt. Comm. and Netw., 7(9), 885-897, Aug. 2015.
- [228] B. Banan*, M.S Hai*, P. Berini, and O. Liboiron-Ladouceur, "Simultaneous high-capacity optical and microwave data transmission over metal waveguides," OSA Optics Express, 23(11), 14135-14147, May 20, 2015.

- [229] P. Liao*, M. Sakib*, F. Lou*, J. Park, M. Wlodawski, V.I. Kopp, D. Neugroschl, O. Liboiron-Ladouceur, "Ultradense Silicon Photonic Interface for Optical Interconnection," *IEEE Photon. Technol. Lett.*, 27(7), 725-728, April 1, 2015. (#7 download of journal in April 2015)
- [230] M.S. Hai*, M.N. Sakib*, O. Liboiron-Ladouceur, "Monolithic 1×2 MMI-Based 25-Gb/s SOI DPSK Demodulator Integrated With SiGe Photodetector," *IEEE Photon. Technol. Lett.*, 27(6), 565-568, March 15, 2015.
- [231] O. Liboiron-Ladouceur, "Breakthroughs in Photonics 2014: Optical Interconnection Networks," *IEEE Photonics Journal*, 7(3), 1-4, June 2015.
- [232] C. Williams*, B. Banan*, G. Cowan, O. Liboiron-Ladouceur, "Demonstration of Mode-Division Multiplexing for On-Chip Source-Synchronous Communications, Asia Communications and Photonics Conference, AM1B.1, Hong Kong, Nov. 2015
- [233] M. Nikdast*, G. Nicolescu, J. Trajkovic, O. Liboiron-Ladouceur, "Silicon Photonic Integrated Circuits under Process Variations," *Asia Communications and Photonics Conference (ACP), ASu2A.12, Honk Kong, Nov. 2015 [Won Best Poster Award]*
- [234] F. Göhring de Magalhaes*, R. Priti*, M. Nikdast*, F. Hessel, O. Liboiron-Ladouceur, and G. Nicolescu, "A Low-Latency Centralized Controller for MZI-based Optical Integrated Networks," *International Conference on Photonics in Switching (PS)*, pp. 118-120, Florence (Italy), Sept. 2015.
- [235] S. Faralli, F. Gambini, P. Pintus, O. Liboiron-Ladouceur, P. Castoldi, N. Andriolli, and I. Cerutti, "Experimental Demonstration of Bidirectional Transmissions in a Photonic Integrated Network on Chip with Bus Topology," *Photonics in Switching (PS)*, Italy, Sept. 2015.
- [236] M.S. Hai*, M. Ménard, O. Liboiron-Ladouceur, "A 20 Gb/s SiGe Photoreceiver Based on Optical Time Sampling," *European Conf. on Opt. Comm. (ECOC)*, Tu.1.3.5, Valencia, Sept. 2015
- [237] R.B. Priti*, Fei Lou*, O. Liboiron-Ladouceur, "A high extinction ratio broadband 1310nm MZI switch," *IEEE Group IV Photonics (GFP)*, pp. 114-115, Vancouver, August 2015
- [238] P. Velha, I. Cerutti, O. Liboiron-Ladouceur, N. Andriolli, "A Silicon Photonics Network-on-Chip Architecture based on Mode and Wavelength Switching," *IEEE Group IV Photonics (GFP)*, Vancouver, Aug. 2015
- [239] C. Williams*, B. Banan*, G.E.R. Cowan, O. Liboiron-Ladouceur, "Source-Synchronous Optical Link Using Mode-Division Multiplexing," *IEEE Group IV Photonics (GFP)*, Vancouver, Aug. 2015
- [240] I. Cerutti, N. Andriolli, P. Pintus, S. Faralli, F. Gambini, P. Castoldi, O. Liboiron-Ladouceur, "Fast Scheduling based on iterative Parallel Wavelength Matching for a Multi-wavelength Ring Network-on-Chip," *Conference on Opt. Netw. Design Modeling*, 180-185, Pisa (Italy), May 2015.
- [241] M.S. Hai*, and O. Liboiron-Ladouceur, "Low-loss Si₃N₄ Wavelength-striped Multiplexer," in *Proc. of IEEE Optical Interconnects Conference*, pp. 92-93, San Diego (USA), April 2015.
- [242] F. Lou*, M. Moayedi Pour Fard*, P. Liao*, M.S. Hai*, R. Priti*, Y. Huangfu, C. Qiu, Q. Hao, Z. Wei, O. Liboiron-Ladouceur, "Towards a Centralized Controller for Silicon Photonic MZI-based Interconnects," in *IEEE Optical Interconnects Conference*, pp. 146-147, USA, April 2015.
- [243] P. Liao*, M.N. Sakib*, J. Park, M. Wlodawski, V. I. Kopp, D. Neugroschl, and O. Liboiron-Ladouceur, "Ultra-dense Optical I/O Interface for Silicon Photonic Interconnects," in *Proc. of IEEE Optical Interconnects Conference*, pp. 116-117, San Diego, USA, April 2015

LOWTHER, DAVID A.:

- [244] Li, M., Guimaraes, F., Lowther, D.A., "Competitive Co-Evolutionary Algorithm for Constrained Robust Design," *IET Proceedings on Science, Measurement and Technology*, v. 9, 2, 2015, pp.218-223.
- [245] Li, M., Silva, R., Guimaraes, F., Lowther, D., "A New Robust Dominance Criterion for Multiobjective Optimization," *IEEE Transactions on Magnetics*, v. 51, 3, 2015, Art 8201504.
- [246] Hussain, S., "Establishing a Relation between Preisach and Jiles-Atherton Models," *IEEE Transactions on Magnetics*, v. 51, 3, 2015, Art 2001404.
- [247] Li, M., Gabriel, F., Alkadri, M., Lowther, D.A., "Kriging assisted Multi-objective Design of Permanent Magnet Motor for position Sensorless Control," *Proceedings of the International Conference on the Computation of Electromagnetic Fields (COMPUMAG) 2015*, Montreal, Quebec, Canada, June 28 to July 2, 2015, paper PA4-12, 2 pages.
- [248] Salimi, A., Lowther, D.A., "On the Role of Robustness in Multi-Objective Robust Optimization in the Design of Electromagnetic Devices," *Proceedings of the International Conference on the Computation of Electromagnetic Fields (COMPUMAG) 2015*, Montreal, Quebec, Canada, June 28 to July 2, 2015, paper PB4-15, 2 pages.

- [249] Hussain, S., Lowther, D.A., "Prediction of Iron Losses Using Jiles-Atherton Model with Interpolated Parameters under the Conditions of Frequency and Compressive Stress," Proceedings of the International Conference on the Computation of Electromagnetic Fields (COMPUMAG) 2015, Montreal, Quebec, Canada, June 28 to July 2, 2015, paper OA6-1, 2 pages.
- [250] Hussain, S., Silva, R., Lowther, D.A., "Implementation of Iron Loss Model on Graphic Processing Units," Proceedings of the International Conference on the Computation of Electromagnetic Fields (COMPUMAG) 2015, Montreal, Quebec, Canada, June 28 to July 2, 2015, paper PB12-17, 2 pages
- [251] Saeed, O., Saleem, A., Rahman, T., Chromik, R., Lowther, D.A., "Iron Loss Models under Static Stress for Non-Oriented and Grain Oriented Steel," Proceedings of the International Conference on the Computation of Electromagnetic Fields (COMPUMAG) 2015, Montreal, Quebec, Canada, June 28 to July 2, 2015, paper PB2-18, 2 pages
- [252] 6. Mohammadi, M., Rahman, T., Silva, R., Li, M., Lowther, D.A., "A Computationally Efficient Algorithm for Rotor Design Optimization of Synchronous Reluctance Machines," Proceedings of the International Conference on the Computation of Electromagnetic Fields (COMPUMAG) 2015, Montreal, Quebec, Canada, June 28 to July 2, 2015, paper PD2-9, 2 pages.
- [253] Silva, R., Salimi, A., Li, M., Freitas, A., Guimaraes, F., Lowther, D.A., "Visualization and Analysis of Trade-offs in Many-Objective", Proceedings of the International Conference on the Computation of Electromagnetic Fields (COMPUMAG) 2015, Montreal, Quebec, Canada, June 28 to July 2, 2015, paper OA3-2, 2 pages

MAHAJAN, ADITYA:

- [254] M. Maheswaran, Y. Wen, and A. Gowing, "Design of a Context Aware Object Model for Smart Spaces, Things, and People," IEEE International Conference on Communications, London, UK, June 2015.
- [255] M. Maheswaran and S. Misra, "Towards a Social Governance Framework for Internet of Things," IEEE World Forum on Internet of Things, Milan, Italy, Dec 2015.
- [256] J. Arabneydi* and A. Mahajan, "Team-optimal solution of finite number of mean-field coupled LQG subsystems," 54th IEEE Conference on Decision and Control (CDC), Kyoto, Japan, Dec 15–18, 2015 (6 pages).
- [257] C. Cui* and A. Mahajan, "On computing optimal thresholds in decentralized sequential hypothesis testing," 54th IEEE Conference on Decision and Control (CDC), Kyoto, Japan, Dec 15–18, 2015 (5 pages).
- [258] J. Chakravorty* and A. Mahajan, "When to communicate information in two-player teams?," Sixth Workshop on Dynamic Games in Management Science, Montreal, QC, Oct 22-23, 2015.
- [259] J. Chakravorty** and A. Mahajan, "Remote estimation of Markov processes under communication constraints," Forth Rutgers Applied Probability Conference, Piscataway, NJ, Oct 2-3, 2015.
- [260] J. Arabneydi* and A. Mahajan, "Reinforcement learning in decentralized stochastic control systems with partial history sharing," American Control Conference (ACC), pp. 5449–5456, Chicago, IL, Jul 1-3, 2015.
- [261] S. Li*, A. Khisti, and A. Mahajan, "Structure of optimal privacy preserving policies in smart-metered systems using a rechargeable battery," IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC), pp. 375–379, Stockholm, Sweden, Jun 28–Jul 1, 2015. (invited)
- [262] J. Chakravorty* and A. Mahajan, "Distortion-transmission trade-off in real-time transmission of Gauss-Markov sources," IEEE International Symposium of Information Theory (ISIT), pp. 1–5, Hong Kong, China, Jun 14–19, 2015.
- [263] J. Arabneydi* and A. Mahajan, "Mean-field teams," 7th International Conference on Discrete Models of Complex Systems, Toronto, ON, June 17–19, 2015.
- [264] Arabneydi* and A. Mahajan, "Finite-state approximations of POMDPs," Joint International Meeting Canadian Operational Research Society (CORS) Institute for Operations Research and the Management Sciences (INFORMS), Montreal, QC, June 14–17, 2015.
- [265] J. Arabneydi* and A. Mahajan, "Reinforcement learning in decentralized stochastic control systems with partial history sharing," Conference on Reinforcement Learning and Decision Making (RLDM), pp. 193–197, Edmonton, Alberta, Canada, Jun 7–10, 2015. (Selected for oral presentation. Fewer than 15% of accepted submissions were awarded an oral presentation.)

- [266] J. Chakravorty* and A. Mahajan, "Distortion-transmission trade-off in real-time transmission of Markov sources," IEEE Information Theory Workshop (ITW), pp. 1–5, Jerusalem, Israel, Apr 26–May 1, 2015. (invited)
- [267] J. Arabneydi* and A. Mahajan, "Team optimal control of coupled major-minor subsystems with mean-field sharing," IEEE Indian Control Conference, pp. 95–100, Chennai, India, Jan 5-7, 2015.

MCINTOSH, SHANE:

- [268] McIntosh S, Nagappan M, Adams B, Hassan A E. (2015). A Large-Scale Empirical Study of the Relationship between Build Technology and Build Maintenance. *Empirical Software Engineering* (Springer). 20(6): pp. 1587-1633.
- [269] Kamei Y, Fukushima T, McIntosh S, Yamashita K, Ubayashi N, Hassan A E. (2015). Studying Just-In-Time Defect Prediction using Cross-Project Models. *Empirical Software Engineering* (Springer). Online pp. 1-35.
- [270] McIntosh S, Adams B, Nagappan M, Hassan A E. (2015). Identifying and Understanding Header File Hotspots in C/C++ Build Processes. *Automated Software Engineering* (Springer). Online pp. 1-29.
- [271] McIntosh S, Kamei Y, Adams B, Hassan A E. (2015). An Empirical Study of the Impact of Modern Code Review Practices on Software Quality. *Empirical Software Engineering* (Springer). Online pp. 1-44.
- [272] Nagappan M, Robbes R, Kamei Y, Tanter É, McIntosh S, Mockus A, Hassan A E. (2015). An Empirical Study of Goto in C Code from GitHub Repositories. 10th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT International Symposium on the Foundations of Software Engineering (ESEC/FSE), Bergamo, Italy, 2015-08-31 (pp. 404-414).
- [273] Tantithamthavorn C, McIntosh S, Hassan A E, Ihara A, Matsumoto K. (2015). The Impact of Mislabelling on the Performance and Interpretation of Defect Prediction Models. 37th ACM/IEEE International Conference on Software Engineering (ICSE), Florence, Italy, 2015-05-20 (pp. 812-823).
- [274] Ghotra B, McIntosh S, Hassan A E. (2015). Revisiting the Impact of Classification Techniques on the Performance of Defect Prediction Models. 37th ACM/IEEE International Conference on Software Engineering (ICSE), Florence, Italy, 2015-05-20 (pp. 789-800).
- [275] Thongtanunam P, McIntosh S, Hassan A E, Iida H. (2015). Investigating Code Review Practices in Defective Files: An Empirical Study of the Qt System. 12th IEEE Working Conference on Mining Software Repositories (MSR), Florence, Italy, 2015-05-16 (pp. 168-179).
- [276] Morales R, McIntosh S, Khomh F. (2015). Do Code Review Practices Impact Design Quality?: An Empirical Study of the Qt, VTK, and ITK Projects. 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER), Montreal, Canada, 2015-03-03 (pp. 171-180).
- [277] Xia X, Lo D, McIntosh S, Shihab E, Hassan A E. (2015). Cross-Project Build Co-change Prediction. 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER), Montreal, Canada, 2015-03-03 (pp. 311-320).

MEYER, BRETT:

- [278] Vahid Lari, Jürgen Teich, Alexandru Tanase, Michael Witterauf, Faramarz Khosravi, Brett H. Meyer, "Techniques for On-Demand Structural Redundancy for Massively Parallel Processor Arrays," *Journal of Systems Architecture (JSA) – Embedded System Design*, 61(10), 2015.
- [279] Seyyed Hasan Mozafari, Brett H. Meyer, "Hot Spare Components for Performance-Cost Improvement in Multi-core SIMT," in the Proceedings of the 28th IEEE Defect and Fault Tolerance in VLSI and Nanotechnology Systems Symposium, DFT '15, October 2015. Presented by student.
- [280] Badrun Nahar, Brett H. Meyer, "RotR: Rotational Redundant Task Mapping for Fail-operational MPSoCs," in the Proceedings of the 28th IEEE Defect and Fault Tolerance in VLSI and Nanotechnology Systems Symposium, DFT '15, October 2015. Best Paper Award. Presented by student.
- [281] Runjie Zhang, Kaushik Mazumdar, Brett H. Meyer, Ke Wang, Kevin Skadron, Mircea Stan, "Transient Voltage Noise in Charge-Recycled Power Delivery Networks for Many-Layer 3D-IC," in the Proceedings of the International Symposium on Low Power Electronics Design, ISLPED '15, July 2015. Presented by student.
- [282] Vahid Lari, Alexandru Tanase, Jürgen Teich, Michael Witterauf, Faramarz Khosravi, Frank Hannig and Brett H. Meyer, "Co-design Approach for Fault-tolerant Loop Execution on Coarse-grained

- Reconfigurable Arrays,” in the Proceedings of the NASA/ESA Conference on Adaptive Hardware and Systems, AHS '15, June 2015. Invited. Presented by student.
- [283] Runjie Zhang, Kaushik Mazumdar, Brett H. Meyer, Ke Wang, Kevin Skadron, Mircea Stan, “A Cross-Layer Design Exploration of Charge-Recycled Power-Delivery in Many-Layer 3D-IC,” in the Proceedings of the Design Automation Conference, DAC '15, June 2015. Presented by student.
- [284] Seyyed Hasan Mozafari, Kevin Skadron, Brett H. Meyer, “Yield-aware Performance-Cost Characterization for Multi-Core SIMT,” in the Proceedings of the ACM Great Lakes Symposium on VLSI, GLSVLSI '15, May 2015. Presented by student.
- [285] Dimitrios Stamoulis, Dimitrios Rodopoulos, Brett H. Meyer, Dimitrios Soudris, Francky Catthoor, Zeljko Zilic, “Efficient Reliability Analysis of Processor Datapath using Atomistic BTI Variability Models,” in the Proceedings of the ACM Great Lakes Symposium on VLSI, GLSVLSI '15, May 2015. (Best Paper Candidate. Presented by student.
- [286] Zaid Al-bayati, Youcheng Sun, Haibo Zeng, Marco Di Natale, Qi Zhu, and Brett H. Meyer, “Task Placement and Selection of Data Consistency Mechanisms for Real-Time Multicore Applications,” in the Proceedings of the 21st IEEE Real-Time and Embedded Technology and Applications Symposium, RTAS '15, April 2015. Presented by student.

MI, ZETIAN:

- [287] K. H. Li, X. Liu, Q. Wang, S. Zhao, and Z. Mi, “Ultralow threshold, electrically injected AlGa_N nanowire ultraviolet lasers on Si operating at low temperature,” *Nature Nanotech.*, vol. 10, 140, 2015.
- [288] Invited Review: Z. Mi and S. Zhao, “Extending group-III nitrides to the infrared: Recent advances in InN,” *Phys. Stat. Sol. (b)*, vol. 252, 1050, 2015. (Featured on the back cover of the issue)
- [289] B. AlOtaibi, S. Fan, S. Vanka, M. G. Kibria, and Z. Mi, “A metal-nitride nanowire 2-photon dual-photoelectrode device for unassisted solar-to-hydrogen conversion,” *Nano Lett.*, vol. 10, 6821, 2015.
- [290] S. Zhao, M. Djavid, and Z. Mi, “Surface-emitting, high efficiency near-vacuum ultraviolet light source with aluminum nitride nanowires monolithically grown on Si,” *Nano Lett.*, vol. 15, 7006, 2015.
- [291] S. M. Sadaf, Y.-H. Ra, H. P. T. Nguyen, M. Djavid, and Z. Mi, “Alternating-current InGa_N/Ga_N tunnel junction nanowire white-light emitting diodes,” *Nano Lett.*, vol. 16, 6696, 2015.
- [292] S. Y. Woo, M. Bugnet, H. P. T. Nguyen, Z. Mi, and G. A. Botton, “Atomic ordering in InGa_N alloys within nanowire heterostructures,” *Nano Lett.*, vol. 15, 6413, 2015.
- [293] Invited Review: S. Zhao, H. P. T. Nguyen, M. G. Kibria, and Z. Mi, “III-nitride nanowire optoelectronics,” *Prog. Quant. Electron.*, vol. 44, pp. 14-68, 2015.
- [294] S. Zhang, D. A. Laleyan, Q. Wang, and Z. Mi, “Impact of nanowire geometry on the carrier transport in Ga_N/InGa_N axial nanowire light emitting diodes,” *J. Eng.*, 2015 (doi: 10.1049/joe.2014.0349).
- [295] Y. Wang, B. AlOtaibi, F. A. Chowdhury, S. Fan, L. Li, C.-J. Li, and Z. Mi, “Photoelectrochemical reduction of carbon dioxide using Ge doped Ga_N nanowire photoanodes,” *APL Mater.*, vol. 3, 116106, 2015.
- [296] S. Zhao, S. Y. Woo, M. Bugnet, X. Liu, J. Kang, G. A. Botton, and Z. Mi, “Three-dimensional quantum confinement of charge carriers in self-organized AlGa_N nanowires: A viable route to electrically injected deep ultraviolet lasers,” *Nano Lett.*, vol. 15, 7801, 2015.
- [297] B. Ouyang, G. Lan, Y. Guo, Z. Mi, and J. Song, “Phase engineering of monolayer transition-metal dichalcogenide through coupled electron doping and lattice deformation,” *Appl. Phys. Lett.*, vol. 107, 191903, 2015.
- [298] A. T. Connie, S. Zhao, S. M. Sadaf, I. Shih, Z. Mi, X. Du, J. Lin, and H. Jiang, “Optical and electrical properties of Mg-doped AlN nanowires grown by molecular beam epitaxy,” *Appl. Phys. Lett.*, vol. 106, 213105, 2015.
- [299] S. Fan, B. AlOtaibi, S. Y. Woo, Y. Wang, G. A. Botton, and Z. Mi, “High efficiency solar-to-hydrogen conversion on a monolithically integrated InGa_N/Ga_N/Si adaptive tunnel junction photocathode,” *Nano Lett.*, vol. 15, 2721, 2015.
- [300] S. Deshpande, T. Frost, L. Ya, S. Jahangir, A. Hazari, X. Liu, J. Millunchick, Z. Mi, and P. Bhattacharya, “On the formation and nature of InGa_N quantum dots in Ga_N nanowires,” *Nano Lett.*, vol. 15, 1647, 2015.
- [301] M. G. Kibria, F. A. Chowdhury, S. Zhao, B. AlOtaibi, M. L. Trudeau, H. Guo, and Z. Mi, “Visible light driven efficient overall water splitting using p-type metal-nitride nanowire arrays,” *Nature Comm.*, vol. 6, 6797, 2015.

- [302] S. Zhao, X. Liu, S. Y. Woo, J. Kang, G. A. Botton, and Z. Mi, "An electrically injected AlGaIn nanowire laser operating in the UV-C band at room-temperature," *Appl. Phys. Lett.*, vol. 107, 043101, 2015.
- [303] A. Hazari, A. Bhattacharya, T. Frost, S. Zhao, Md. Z. Baten, Z. Mi, and P. Bhattacharya, "Optical constants of $\text{In}_x\text{Ga}_{1-x}\text{N}$ ($0 < x < 0.73$) in the visible and near-infrared wavelength regimes," *Opt. Lett.*, vol. 40, 3304, 2015.
- [304] B. AlOtabi, S. Fan, D. Wang, J. Ye, and Z. Mi, "Wafer-level artificial photosynthesis for selective reduction of CO_2 into CH_4 and CO using GaN nanowires," *ACS Catal.*, vol. 5, 5342, 2015.
- [305] L. Li, W. Liu, H. Zeng, X. Mu, Z. Mi, and C.-J. Li, "Photo-induced catalyst-free aromatic Finkelstein reaction," *J. Am. Chem. Soc.*, vol. 137, 8328, 2015.
- [306] R. Wang, X. Liu, I. Shih, and Z. Mi, "High efficiency, full-color AlInGaIn quaternary nanowire light emitting diodes with spontaneous core-shell structures on Si," *Appl. Phys. Lett.*, vol. 106, 261104, 2015.
- [307] Y.-C. Pu, M. G. Kibria, Z. Mi, and J. Z. Zhang, "Ultrafast exciton dynamics in InGaIn/GaN and Rh/Cr₂O₃ nanoparticle decorated InGaIn/GaN nanowires," *J. Phys. Chem. Lett.*, vol. 6, 2649, 2015.
- [308] L. Li, X. Mu, W. Liu, Z. Mi, and C.-J. Li, "A simple and efficient system for combined solar-energy harvesting and reversible hydrogen storage," *J. Am. Chem. Soc.*, vol. 137, 7526, 2015. (also highlighted in Phys.org, <http://phys.org/news/2015-06-simple-hydrogen-storage-solution-powered.html>)
- [309] S. Woo, N. Gauquelin, H. P. T. Nguyen, Z. Mi, and G. A. Botton, "Interplay of strain and indium incorporation in InGaIn/GaN dot-in-a-wire nanostructures by scanning transmission electron microscopy," *Nanotechnol.*, vol. 26, 344002, 2015.
- [310] M. G. Kibria, F. A. Chowdhury, M. L. Trudeau, H. Guo, and Z. Mi, "Dye-sensitized InGaIn nanowire arrays for efficient hydrogen production under visible light irradiation," *Nanotechnol.*, vol. 26, 285401, 2015.
- [311] Invited: F. A. Chowdhury, Z. Mi, M. G. Kibria, and M. L. Trudeau, "Group III-nitride nanowire structures for photocatalytic water splitting under visible light irradiation," *APL Materials*, vol. 3, 104408, 2015.
- [312] M. G. Kibria, F. A. Chowdhury, S. Zhao, M. L. Trudeau, H. Guo, and Z. Mi, "Defect-engineered GaIn:Mg nanowire arrays for overall water splitting under violet light," *Appl. Phys. Lett.*, vol. 106, 113105, 2015.
- [313] S. Li, B. AlOtabi, W. Huang, Z. Mi, R. Nechache, and F. Rosei, "Epitaxial Bi₂FeCrO₆ multiferroic thin film as a new visible light absorbing photocathode materials," *Small*, vol. 11, 4018, 2015.
- [314] H. P. T. Nguyen, M. Djavid, S. Y. Woo, X. Liu, A. T. Connie, S. M. Sadaf, Q. Wang, G. A. Botton, I. Shih, Z. Mi, "Engineering the carrier dynamics of InGaIn nanowire white light-emitting diodes by distributed p-AlGaIn electron blocking layers," *Nature Scientific Reports*, vol. 5, 7744, 2015.
- [315] S. Zhao, A. T. Connie, M. H. T. Dastjerdi, X. Kong, Q. Wang, S. M. Sadaf, X. Liu, I. Shih, H. Guo, and Z. Mi, "Aluminum nitride nanowire light emitting diodes: Breaking the fundamental bottleneck of deep ultraviolet light sources," *Nature Scientific Reports*, vol. 5, 8332, 2015.
- [316] M. H. T. Dastjerdi, M. Djavid, and Z. Mi, "An electrically injected rolled-up semiconductor tube laser," *Appl. Phys. Lett.*, vol. 106, 021114, 2015. (Also reported by Semiconductor Today, http://www.semiconductor-today.com/news_items/2015/jan/mcgill_230115.shtml, *Nature Photonics*, vol. 9, 146, 2015, doi:10.1038/nphoton.2015.25, and <http://phys.org/news/2015-01-first-of-its-kind-tube-laser-on-chip-optical.html>)
- [317] K. H. Li, Q. Wang, H. P. T. Nguyen, S. Zhao, and Z. Mi, "Polarization-resolved electroluminescence study of InGaIn/GaN dot-in-a-wire light-emitting diodes grown by molecular beam epitaxy," *Phys. Stat. Sol. (b)*, vol. 212, 941, 2015.
- [318] G. Sun, R. Chen, Y. J. Ding, H. P. T. Nguyen, and Z. Mi, "InGaIn/GaN dot-in-a-wire: Ultimate terahertz nanoemitters," *Lasers and Photonics Review*, vol. 9, pp. 105-113, 2015.

MICHALSKA, HANNAH:

- [319] Farkhatdinov, I., Michalska, H., Hayward, V., "Idiothetic verticality estimation through the head stabilization strategy", 17 pages, to appear in *International Journal of Humanoid Robotics*
- [320] Michalska, H., "Sensitivity of retarded functional differential Equations to Banach space parameters", 18 pages; *Journal of Applied Mathematics*;
- [321] Farkhatdinov, I., Michalska, H., Hayward, V., Berthoz, A., "Gravito-inertial ambiguity during locomotion can be resolved through head stabilization", 18 pages; *Biocybernetics and Biomedical Engineering*;

- [322] Castanos, F., Gromov, D., Michalska, H., Hayward, V. "Discrete time models for implicit Port-Hamiltonian systems"; 27 pages, International Journal of Control;
- [323] Platkiewicz, J., Michalska, H., Hayward, V., "Probabilistic nonlinear models explain the size-weight, the moon, and other illusions", 15 pages, Journal of Perception;

MUSSBACHER, GUNTER:

- [324] Georg, G., Mussbacher, G., Amyot, D., Petriu, D., Troup, L., Lozano-Fuentes, S., and France, R. (2015) Synergy between Activity Theory and Goal/Scenario Modeling for Requirements Elicitation, Analysis, and Evolution. Information and Software Technology (INFISOFT), Elsevier 59:109-135. DOI: 10.1016/j.infsof.2014.11.003. (note that this was already listed in last year's report as the online version was available in 2014; the actual publication date is 2015, though)
- [325] Duran, M.B., Mussbacher, G., Thimmegowda, N., and Kienzle, J. (2015) On the Reuse of Goal Models. 17th International System Design Languages Forum (SDL 2013), Berlin, Germany, October 2015. Fischer, J., Scheidgen, M., Schieferdecker, I., and Reed, R. (Eds.), SDL 2015: Model-Driven Engineering for Smart Cities, Springer, LNCS 9369:141-158. DOI: 10.1007/978-3-319-24912-4_11.
- [326] Duran, M.B. Navea Pina, A., and Mussbacher, G. (2015) Evaluation of Reusable Concern-Oriented Goal Models. 5th International Model-Driven Requirements Engineering Workshop (MoDRE 2015), Ottawa, Canada, August 2015. IEEE CS, 1-10. DOI: 10.1109/MoDRE.2015.7343876.
- [327] Alexandre, R., Camillieri, C., Duran, M.B. Navea Pina, A.***, Schöttle, M., Kienzle, J., and Mussbacher, G. (2015) Support for Evaluation of Impact Models in Reuse Hierarchies with jUCMNav and TouchCORE. Tool Demo, 18th ACM/IEEE International Conference on Model Driven Engineering Languages and Systems (MODELS 2015), Demo and Poster Sessions, Ottawa, Canada, October 2015. CEUR-WS 1554:28-31.
- [328] Schöttle, M., Thimmegowda, N., Alam, O., Kienzle, J., and Mussbacher, G. (2015) Feature Modelling and Traceability for Concern-Driven Software Development with TouchCORE. Tool Demo, 14th International Conference on Modularity (MODULARITY 2015), Companion Proceedings, Fort Collins, Colorado, USA, March 2015, ACM, 11-14. DOI: 10.1145/2735386.2735922.

PLANT, DAVID V.:

- [329] M. Morsy-Osman, M. Chagnon, M. Poulin, S. Lessard, and D.V. Plant, "224-Gb/s 10-km transmission of PDM PAM-4 at 1.3 μm using a single intensity-modulated laser and a direct-detection MIMO DSP-based receiver," J. Lightw. Technol., vol. 33, pp.1417-1424, 2015.
- [330] M. Chagnon, M. Osman, M. Poulin, C. Paquet, S. Lessard, and D.V. Plant, "Experimental parametric study of a silicon photonic modulator enabled 112 Gb/s PAM transmission system with a DAC and ADC," J. Lightw. Technol., vol. 33, pp.1380-1387, 2015.
- [331] F. Zhang, Q. Zhuge, M. Qiu, W. Wang, M. Chagnon, and D.V. Plant, "XPM model based digital backpropagation for subcarrier-multiplexing systems," J. Lightw. Technol., vol. 33, pp. 5140-5150, 2015.
- [332] R. Dube-Demers, J. St-Yves, A. Bois, Q. Zhong, M. Caverley, Y. Wang, L. Chrostowski, S. LaRochelle, D.V. Plant, and W. Shi, "Analytical modeling of silicon microring and microdisk modulators with electrical and optical dynamics," J. Lightw. Technol., vol. 33, pp. 4240-4252, 2015.
- [333] D. Patel, A. Samani, V. Veerasubramanian, S. Ghosh, and D.V. Plant, "Silicon photonic segmented modulator based electro-optic DAC for 100 Gbps PAM-4 generation," IEEE Photon. Technol. Lett., vol. 27, pp. 2433-2436, 2015.
- [334] T. M. Hoang, M. M. Osman, M. Chagnon, M. Qiu, D. Patel, M. Sowailam, X. Xu, and D.V. Plant, "Phase-diversity method using phase-shifting interference algorithms for digital coherent receivers," Opt. Commun., vol. 356, pp. 269-277, 2015.
- [335] M. Malekiha, I. Tselniker, M. Nazarathy, A. Tolmachev, and D.V. Plant, "Experimental demonstration of low-complexity fiber chromatic dispersion mitigation for reduced guard-interval OFDM coherent optical communication systems based on digital spectrum sub-band multiplexing," Opt. Exp., vol. 23, pp. 25608-25619, 2015.
- [336] W. Wang, Q. Zhuge, Y. Gao, M. Qiu, M. Chagnon, M. Y. Sowailam, F. Zhang, and D. V. Plant, "Enhanced channel equalizers for adaptive zero-guard-interval CO-OFDM systems," IEEE Photon. Technol. Lett., vol. 27, pp. 1721-1724, 2015.

- [337] Y. Gao, Q. Zhuge, W. Wang, X. Xu, J. M. Buset, M. Qiu, M. Morsy-Osman, M. Chagnon, F. Li, L. Wang, C. Lu, A. P. T. Lau, and D. V. Plant, "40 Gb/s CAP32 short reach transmission over 80 km single mode fiber," *Opt. Exp.*, vol. 23, pp. 11412-11423, 2015.
- [338] A. Samani, M. Chagnon, D. Patel, V. Veerasubramanian, S. Ghosh, M. Osman, Q. Zhong, and D. V. Plant, "A low-voltage 35-GHz silicon photonic modulator-enabled 112-Gb/s transmission system," *IEEE Photonics Journal*, vol. 7, 7901413, 2015.
- [339] D. Patel, S. Ghosh, M. Chagnon, A. Samani, V. Veerasubramanian, M. Osman, and D. V. Plant, "Design, analysis, and transmission system performance of a 41 GHz silicon photonic modulator," *Opt. Exp.*, vol. 23, pp. 14263-14287, 2015.
- [340] M. Chagnon, M. Spasojevic, R. Adams, J. Li, D.V. Plant, and L.R. Chen, "Wavelength multicasting at 22 GBaud 16-QAM in a silicon nanowire using four-wave mixing," *IEEE Photon. Technol. Lett.*, vol. 27, pp. 860-863, 2015.
- [341] X. Xu, Q. Zhuge, B. Châtelain, M. Chagnon, M. Morsy-Osman, M. Malekiha, M. Qiu, Y. Gao, W. Wang, and D.V. Plant, "Experimental investigation on the nonlinear tolerance of root M-shaped pulse in spectrally efficient coherent transmissions," *Opt. Exp.*, vol. 23, pp. 882-894, 2015.
- [342] D.V. Plant, "Flexible transceiver design for high capacity elastic coherent transport systems," *Asilmoar Conference*, paper TP1-5, 2015.
- [343] D.V. Plant, "Silicon photonic technologies enabling multi-dimensional modulation formats and Stokes vector receivers for data center optical interconnects," *IEEE Photonics Society International Photonics Conference (IPC)*, paper TuG2.2, 2015.
- [344] D.V. Plant, "Transmission of multi-dimensional signals using silicon photonic modulators and MIMO based direct detection receivers," *European Conference on Optical Communications (ECOC)*, paper Mo.3.5.2, 2015.
- [345] D.V. Plant, "Multi-dimensional intensity modulated/direct detection systems for short reach optical interconnects," *IEEE Group IV Photonics*, paper ThF1, 2015.
- [346] D.V. Plant, "Silicon photonic enabled 400G/1T short reach optical interconnects for data center applications," *Signal Processing in Photonic Communications*, paper TBD, 2015 (can you go online and find the paper number).
- [347] Q. Zhuge, M. Reimer, A. D. Shiner, A. Borowiec, D. Charlton, F. Zhang, M. Qiu, W. Wang, D. V. Plant, and M. O'Sullivan, "Flexible modulation and nonlinear tolerance for coherent transceivers," *Optoelectronics and Communications Conference (OECC)*, paper JThB.101, 2015.
- [348] D.V. Plant, "Silicon photonic enabled 400G/1T short reach optical interconnects for data center applications," *IEEE Photonics Society Optical Interconnects Conference (OIC)*, paper WC1, 2015.
- [349] A. Yekani, M. Chagnon, C. S. Park, M. Poulin, D. V. Plant, L. A. Rusch, "Experimental comparison of PAM vs. DMT using an O-Band silicon photonic modulator at different propagation distances," *European Conference on Optical Communications (ECOC)*, paper Mo.4.5.1, 2015.
- [350] M. Morsy-Osman, M. Chagnon, and D.V. Plant, "Polarization division multiplexed intensity, inter polarization differential phase modulation with Stokes space direct detection for 1 λ x 320 Gb/s 10 km transmission at 8 bits/symbol," *European Conference on Optical Communications (ECOC)*, post-deadline paper PDP.2.3, 2015.
- [351] T. M. Hoang, M. Morsy-Osman, M. Chagnon, Q. Zhuge, D. Patel, and D.V. Plant, "Phase diversity method for optical coherent receiver," *Conference on Lasers and Electro-Optics (CLEO)*, paper SW1M.1, 2015.
- [352] D. Patel, V. Veerasubramanian, A. Samani, S. Ghosh, M. Chagnon, M. Osman, and D.V. Plant, SW3N.3 "A 41 GHz slow-wave series push-pull silicon photonic modulator," *Conference on Lasers and Electro-Optics (CLEO)*, paper SW3N.3, 2015.
- [353] F. Zhang, Q. Zhuge, M. Qiu, X. Xu, W. Wang, Y. Gao, M. Chagnon, and D. V. Plant, "Advanced and low-complexity digital backpropagation for subcarrier-multiplexing systems," *Optical Fiber Communications (OFC) Conference*, paper Th3D.4, 2015.
- [354] W. Wang, Q. Zhuge, Y. Gao, X. Xu, and D. V. Plant, "Performance optimization in ROADM-enabled DWDM systems using flexible modulation formats," *Optical Fiber Communications (OFC) Conference*, paper Th2A.27, 2015.
- [355] W. Wang, Q. Zhuge, Y. Gao, and D. V. Plant, "Design of enhanced channel equalizers for adaptive zero-guard-interval CO-OFDM systems," *Optical Fiber Communications (OFC) Conference*, paper Th2A.26, 2015.
- [356] M. Chagnon, M. Osman, D. Patel, V. Veerasubramanian, A. Samani, and D.V. Plant, "1 λ , 6 bits/symbol, 280 and 350 Gb/s direct detection transceiver using intensity modulation, polarization

multiplexing, and inter-polarization phase modulation,"Optical Fiber Communications (OFC) Conference, post-deadline paper Th5B.2, 2015.

POPOVIC, MILICA:

- [357] E. Porter, M. Coates, and M. Popović, "An Early Clinical Study of Time-Domain Microwave Radar for Breast Health Monitoring," *IEEE Trans. Biomed. Eng.*, vol. PP, no. 99, pp. 1-8, 2015.
- [358] A. Santorelli, E. Porter, E. Kang, T. Piske, M. Popović, and J. Schwartz, "A Time-Domain Microwave System for Breast Cancer Detection Using a Flexible Circuit Board," *IEEE Trans. Instrum. Meas.*, 2015, in press.
- [359] E. Porter, A. Santorelli, R. Kazemi, and M. Popović, "Microwave Time-Domain Radar: Healthy Tissue Variations Over the Menstrual Cycle," *IEEE Antennas Wireless Propag. Lett.*, vol.14 pp.1310-1313, 2015.
- [360] H. Bahrami, E. Porter, A. Santorelli, B. Gosselin, M. Popović, and L. A. Rusch, "Flexible Sixteen Antenna Array for Microwave Breast Cancer Detection," *IEEE Trans. Biomed. Eng.*, vol. PP, no. 99, pp. 1-11, 2015.
- [361] Y. Li, E. Porter, and M. Coates, "Imaging-based Classification Algorithms on Clinical Trial Data with Injected Tumour Responses," in *Proc. 9th European Conference on Antennas and Propagation (EUCAP 2015)*, Lisbon, Portugal, Apr. 12-17, 2015.
- [362] A. Santorelli, O. Laforest, E. Porter, and M. Popović, "Image Classification for a Time-Domain Microwave Radar System: Experimentals with Stable Modular Breast Phantoms," in *Proc. 9th European Conference on Antennas and Propagation (EUCAP 2015)*, Lisbon, Portugal, Apr. 12-17, 2015.
- [363] E. Porter, R. Kazemi, A. Santorelli, and M. Popović, "Study of Daily Tissue Changes through Breast Monitoring with Time-Domain Microwave Radar," in *Proc. 9th European Conference on Antennas and Propagation (EUCAP 2015)*, Lisbon, Portugal, Apr. 12-17, 2015.

PSAROMILIGKOS, IOANNIS:

- [364] J. Kabbara, I. Psaromiligkos, "Kernel subspace pursuit for sparse regression," *Elsevier Pattern Recognition Letters*, appeared online 22/10/2015, (doi:10.1016/j.patrec.2015.09.018)
- [365] A. Salehi Nobandegani, I. Psaromiligkos, "Multi-Context Models for Reasoning under Partial Knowledge: Generative Process and Inference Grammar," in *Proceedings of the 31st Conference on Uncertainty in Artificial Intelligence (UAI'16)*, Amsterdam, The Netherlands, July 2015.

RABBAT, MICHAEL:

- [366] C.-W. Chao, M. Rabbat, and S. Blouin, "Particle weight approximation with clustering for gossip-based distributed particle filters," *IEEE Workshop on Computational Advances in Multi-Sensor Adaptive Processing*, Cancun, Mexico, December 2015.
- [367] B. Pasdeloup, R. Alami, V. Gripon, and M. Rabbat, "Towards an uncertainty principle for weighted graphs," *European Conference on Signal Processing (EUSIPCO'15)*, Nice, France, August 2015.
- [368] J.Y. Yu, M. Rabbat, M. Coates, and S. Blouin, "Performance investigation of constraint sufficient statistics distributed particle filter," *IEEE Canadian Conference on Electrical and Computer Engineering (CCECE'15)*, Halifax, Canada, May 2015.
- [369] N. Momeni and M. Rabbat, "Measuring the generalized friendship paradox in networks with quality-dependent connectivity," *6th Workshop on Complex Networks (CompleNet)*, New York, USA, March 2015.
- [370] D. Babazadeh, D.V. Hertem, M. Rabbat, and L. Nordström, "Coordination of power injection in HVDC grids with multi-TSOs and large wind penetration," *IET International Conference on AC and DC Power Transmission*, Birmingham, UK, February 2015.

ROBERTS, GORDON:

- [371] O. Abdelfattah, G. W. Roberts I. Shih and Y-C. Shih, "An ultra-low-voltage CMOS process-insensitive self-biased OTA with rail-to-rail input range," *IEEE Trans. on Circuits and Systems 1: Regular Papers*, vol. 62, issue 10, pp. 2380-2390, Oct. 2015.

- [372] R. Parekhji, K. Butler and G. W. Roberts, "Introduction: Speeding up Analog Integration and Test for Mixed-Signal SOCs," Guest Editors, IEEE Design & Test of Computers, Vol. 32, No. 1, pp. 6-8, Feb. 2015.
- [373] G. W. Roberts, "Quick and Easy CMOS Amplifier Design And Optimization," Proceedings of the 22nd IEEE European Conference on Circuit Theory and Design, Trondheim, Norway, August 2015.
- [374] Y. Li, S. Bielby, A. Chowdhury and G. W. Roberts, "Edge Placement Signal Generation Techniques For Time-Based Signaling," Proceedings of the IEEE International Mixed-Signal Test Workshop, Paris, France, June 2015.
- [375] M. Mahani and G. W. Roberts, "A Sub-THz Folded Substrate Integrated Waveguide in IBM 130nm CMOS Process," Proceedings of the IEEE 8th Global Symposium on Millimeter-Waves (GSMM), Montreal, Canada, May 25-27, 2015.
- [376] O. Abdelfattah, G. W. Roberts I. Shih and Y-C. Shih, "A 0.6 V-Supply Bandgap Reference in 65 nm CMOS," Proceedings of the 2015 IEEE 13th International NEWCAS Conference, Grenoble, France, June 2015.
- [377] S. Ziabakhsh, G. Gagnon and G. W. Roberts, "Wide-range linear voltage-controlled delay for time-mode signal processing," Proceedings of the IEEE International Circuits and Systems Conference, Lisbon, Portugal, May 2015.
- [378] S. Bielby and G. W. Roberts, "An Embedded Probabilistic Extraction Unit For On-Chip Jitter Measurements," Proceedings of the IEEE International Circuits and Systems Conference, Lisbon, Portugal, May 2015.
- [379] O. Abdelfattah, G. W. Roberts I. Shih and Y-C. Shih, "A 0.35-V Bulk-Driven Self-Biased OTA with Rail-to-Rail Input Range in 65 nm CMOS," Proceedings of the IEEE International Circuits and Systems Conference, Lisbon, Portugal, May 2015.
- [380] A. Gordon, C. Fayomi and G. W. Roberts, "Low-Cost Trimmable Manufacturing Methods for Printable Electronics," Accepted for presentation at the 2016 IEEE International Circuits and Systems Conference, Montreal, Canada, May 2016. Worked performed in 2015.
- [381] Y. Li and G. W. Roberts, "Design of High-Order Type-II Delay-Locked Loops Using A Gaussian Transfer Function Approach," Accepted for presentation at the 2016 IEEE International Circuits and Systems Conference, Montreal, Canada, May 2016. Worked performed in 2015.
- [382] A. Gordon, G. W. Roberts and C. Fayomi, "NRC OFET Print Technology As Seen From A Circuit Designer's Perspective," Presented at the 2015 Canadian Printable Electronics Symposium (CPES2015), Montreal, Canada, April 21-22, 2015.
- [383] S. Ziabakhsh, G. Gagnon and G. W. Roberts, "New Time-Mode Signal Processing Circuits for Low-Voltage CMOS," Proceedings of the Microsystems Strategic Alliance of Quebec (ReSMiQ) Annual Review Workshop, Montreal, May 2015
- [384] M. S. Hai, M. M. P. Fard, D. An, F. Gambini, S. Faralli, G. B. Preve, G. W. Roberts and O. Liboiron-Ladouceur, "Automated Characterization of SiP MZI-based Switches," Proceedings of the IEEE Photonics Society Optical Interconnects Conference, San Diego, California, April 2015.
- [385] O. Abdelfattah, G. W. Roberts I. Shih and Y-C. Shih, "A 0.55-V 1-GHz Frequency Synthesizer PLL for Ultra-Low-Voltage Ultra-Low-Power Applications," Proceedings of the 6th IEEE Latin American Symposium on Circuits and Systems (LASCAS), Montevideo, Uruguay, February 2015.

ROCHETTE, MARTIN:

- [386] F. Vanier, F. Côté, M. El Amraoui, Y. Messaddeq, Y.-A. Peter and M. Rochette, "Low threshold lasing at 1975 nm in thulium-doped tellurite glass microspheres," Optics Letters 40(22), 5227-5230 (2015).
- [387] Al Kadry, L. Li, M. El Amraoui, T. North, Y. Messaddeq and M. Rochette, "Broadband Supercontinuum Generation in All-normal Dispersion Chalcogenide Microwires," Optics Letters 40(20), 4687-4690 (2015).
- [388] M. R. Fernández-Ruiz, L. Lei, M. Rochette and J. Azaña, "All-optical wavelength conversion based on time-domain holography: erratum," Optics Express 23(19), 24859 (2015).
- [389] Al Kadry, M. El Amraoui, Y. Messaddeq and M. Rochette, "Mode-Locked Laser Based on Chalcogenide Microwires," Optics Letters 40(18), 4309-4312 (2015). Among Top 10 most downloaded articles from the two September issues of Optics Letters.
- [390] J. Wang, R. Ashrafi, M. Rochette and L. R. Chen, "Chirped Microwave Pulse Generation Using an Integrated SiP Bragg Grating in a Sagnac Loop," IEEE Photonic Technology Letters 27(17), 1876-1879 (2015).

- [391] M. R. Fernández-Ruiz, L. Lei, M. Rochette and J. Azaña, "All-optical wavelength conversion based on time-domain holography," *Optics Express* 23(17), 22847-22856 (2015).
- [392] Jia, X. Liang, M. Rochette and L. R. Chen, "Alternate Wavelength Switching in a Widely Tunable Dual-Wavelength Tm³⁺-Doped Fiber Laser at 1900 nm," *IEEE Photonics Journal* 7(4), 1502907 (2015).
- [393] M. Ma, M. Rochette and L. R. Chen, "Generating chirped microwave pulses using an integrated distributed Fabry-Pérot cavity in silicon-on-insulator," *IEEE Photonics Journal* 7(2), 5500706 (2015).
- [394] E. Meyer-Scott, A. Dot, R. Ahmad, L. Li, M. Rochette and T. Jennewein, "Power-efficient production of photon pairs in a tapered chalcogenide microwire," *Applied Physics Letters* 106, 081111 (2015).
- [395] C. Jia, B. J. Shastri, M. Rochette, and L. R. Chen, "Graphene-based passively Q-switched Tm³⁺:ZBLAN fiber laser at 1480 nm," at the IEEE Photonics Conference 2015 (IPC), Tul2.3, Reston, Virginia, October 2015.
- [396] D. M. Chow, J. C. Tchahame, A. Denisov, J.-C. Beugnot, T. Sylvestre, L. Li, R. Ahmad, M. Rochette, K. H. Tow, M. A. Soto, L. Thévenaz, "Mapping the Uniformity of Optical Microwires Using Phase-Correlation Brillouin Distributed Measurements," at *Frontiers of Optics (FIO)*, San Jose, California, October 2015.
- [397] E. Meyer-Scott, A. Dot, R. Ahmad, L. Li, M. Rochette and T. Jennewein, "Can four-wave mixing be pumped by a single photon?," at *Single Photon Workshop (SPW2015)*, Th47, Geneva, Switzerland, July 2015.
- [398] A. Al-kadry, M. El-Amraoui, Y. Messaddeq, and M. Rochette, "Passive mode-locked and switchable multiwavelength laser based on As₂S₃-PMMA microwires," at the *Conference for Lasers and Electro-Optics (CLEO) Europe-EQEC 2015*, CJ-P.34, Munich, Germany, June 2015.
- [399] J. C. Beugnot, R. Ahmad, M. Rochette, J. C. Tchahame, K. P. Huy, V. Laude, H. Maillotte, and T. Sylvestre, "Observation of acoustic avoided crossing in an optical fiber taper," at the *Conference for Lasers and Electro-Optics (CLEO) Europe-EQEC 2015*, CD-1.3, Munich, Germany, June 2015.
- [400] M. Rochette, "Compact nonlinear media for fiber lasers and broadband sources," invited presentation at *Photonics North, Materials-11-41-2*, Ottawa, Ontario, June 2015.
- [401] A. Al Kadry, M. El Amraoui, Y. Messaddeq, and M. Rochette, "Low-energy-threshold mid-infrared supercontinuum generation in as₂se₃ microwires," at *Photonics North, Materials-10-31-5*, Ottawa, Ontario, June 2015.
- [402] A. Al Kadry, L. Li, T. North, M. El Amraoui, Y. Messaddeq, and M. Rochette, "Broadband supercontinuum generation in all-normal dispersion chalcogenide microwires," at *Photonics North, Materials-10-31-4*, Ottawa, Ontario, June 2015.
- [403] C. Berge, A. Al Kadry, and M. Rochette, "Comparison of 2.7 micron fluorescent spectra of er-zblan with 980 nm and 790 nm pumping," at *Photonics North, Nonlinear-4-29-6*, Ottawa, Ontario, June 2015.
- [404] M. I. Kayes and M. Rochette, "Optical Frequency Comb Generation via Cascaded Brillouin Scattering in a Nonlinear Media," at *Photonics North, Nonlinear-4-29-6*, Ottawa, Ontario, June 2015.
- [405] L. Li, A. Al Kadry, and M. Rochette, "Design, fabrication and characterization of polymer-coated As₂Se₃ microwires," at *Photonics North, Materials-10-31-2*, Ottawa, Ontario, June 2015.
- [406] N. Abdukerim, L. Li, and M. Rochette, "Mid-infrared Raman fiber laser in chalcogenide microwire," at *Photonics North, Nonlinear-4-29-6*, Ottawa, Ontario, June 2015.
- [407] E. Meyer-Scott, A. Dot, R. Ahmad, L. Li, T. Jennewein, and M. Rochette, "Producing photon pairs with ultralow pump powers," at *Photonics North, Nonlinear-10-14-1*, Ottawa, Ontario, June 2015.

SHIH, ISHIANG:

- [408] Connie, Ashfiqua Tahseen; Zhao, Songrui; Sadaf, Sharif Md.; Shih, Ishiang; Mi, Zetian; Du, Xiaozhang; Lin, Jingyu; Jiang, Hongxing, Optical and electrical properties of Mg-doped AlN nanowires grown by molecular beam epitaxy Source: *Applied Physics Letters*, v 106, n 21, May 25, 2015
- [409] Salehzadeh, Omid; Djavid, Mehrdad; Tran, Nhung Hong; Shih, Ishiang; Mi, Zetian, Optically pumped two-dimensional MoS₂ lasers operating at room-temperature," *Nano Lett.*, vol. 15, 5302, 2015.

SZKOPEK, THOMAS:

- [410] N. Hemsworth, F. Mahvash, P. Lévesque, M. Siaz, R. Martel and T. Szkopek, "Measurement of electronic heat dissipation in highly disordered graphene", *Phys. Rev. B* 92, 241411(R) (2015).
- [411] W. Dickerson, N. Hemsworth, P. Gaskell, E. Ledwosinska, and T. Szkopek, "Bolometric response of free-standing reduced graphene oxide films", *Appl. Phys. Lett.* 107, 243103 (2015).

- [412] K. Bennaceur, J. Guillemette, P. L. Lévesque, N. Cottenye, F. Mahvash, M. O. Goerbig, C. Proust, M. Sijaj, R. Martel, G. Gervais, and T. Szkopek, “Measurement of Topological Berry Phase in Hydrogenated Graphene”, *Phys. Rev. B*, 92, 125410 (2015).
- [413] H.S. Skulason, D.L. Sounas, F. Mahvash, S. Francoeur, M. Sijaj, C. Caloz and T. Szkopek, “Field effect tuning of microwave Faraday rotation and isolation with large-area graphene”, *Appl. Phys. Lett.* 107, 093106 (2015).
- [414] V. Tayari, N. Hemsworth, I. Fasih, A. Favron, E. Gaufrès, G. Gervais, R. Martel, and T. Szkopek, “Two-dimensional magnetotransport in a naked black phosphorus quantum well”, *Nature Communications* 6, 7702 (2015).
- [415] N. Doiron-Leyraud, T. Szkopek, T. Pereg-Barnea, C. Proust, and G. Gervais, “Berry Phase in Cuprate Superconductors”, *Phys. Rev. B* 91, 245136 (2015).
- [416] B.H. Le, S. Zhao, N.H. Tran, T. Szkopek, Z. Mi, “On the Fermi-level pinning of InN grown surfaces”, *Appl. Phys. Express* 8, 061001 (2015).
- [417] K.H. Hu, X. Xie, M. Cerruti, T. Szkopek, “Controlling the Shell Formation in Hydrothermally Reduced Graphene Hydrogel”, *Langmuir* 31, 5545 (2015).
- [418] F. Mahvash, E. Paradis, D. Drouin, T. Szkopek, M. Sijaj, “Space-charge limited transport in large-area monolayer hexagonal boron nitride”, *Nano Letters* 15, 2263 (2015).
- [419] S. Eissa, G. C. Jimenez, F. Mahvash, A. Guermoune, C. Tlili, T. Szkopek, M. Zourob, M. Sijaj, “Functionalized CVD monolayer graphene for label-free impedimetric biosensing”, *Nano Research* 8, 1698 (2015).
- [420] T. Szkopek, V. Tayari, N. Hemsworth, I. Fasih, A. Favron, E. Gaufrès, R. Martel, G. Gervais, T. Szkopek, “Two-dimensional magnetotransport in a naked black phosphorus quantum well”, 11th International Conference on Research in High Magnetic Fields, 1-4 July 2015, Grenoble, France.
- [421] G. Gervais, V. Tayari, N. Hemsworth, I. Fasih, A. Favron, E. Gaufrès, R. Martel, T. Szkopek, “Two-dimensional magnetotransport in a naked black phosphorus quantum well”, 21st International Conference on Electronic Properties of Two-Dimensional Systems, 26-31 July 2015, Sendai, Japan.
- [422] M. AbdelGhany, F. Mahvash, M. Sijaj and T. Szkopek, "Demonstration of Suspended Graphene Varactors", *Graphene & 2D Materials International Conference and Exhibition*, 14-15 October 2015, Montreal.
- [423] T. Szkopek, V. Tayari, N. Hemsworth, I. Fasih, A. Favron, E. Gaufrès, R. Martel, G. Gervais, T. Szkopek, “Two-dimensional magnetotransport in a naked black phosphorus quantum well”, *Graphene & 2D Materials International Conference and Exhibition*, 14-15 October 2015, Montreal.

WEBB, JONATHAN:

- [424] M. Nazari, J. P. Webb, “Computed basis functions for 2D edge elements”, *IEEE Trans. Magnetics*, vol. 51, no. 3, 4 journal pages, March 2015.
- [425] M. Nazari, J. P. Webb, “Inhomogeneous Dirichlet boundary conditions in the method of computed basis functions”, *IEEE Trans. Magnetics*, vol. 51, no. 3, 4 journal pages, March 2015.
- [426] T. Mukherjee, J. P. Webb, “Hierarchical bases for polygonal finite elements”, *IEEE Trans. Magnetics*, vol. 51, no. 3, 4 journal pages, March 2015.
- [427] Aghabarati, J. P. Webb, “Algebraic multigrid combined with domain decomposition for the finite element analysis of large scattering problems”, *IEEE Trans. Antennas and Propagation*, vol. 63, no. 1, pp.404-408, January 2015.
- [428] T. Mukherjee and J. P. Webb, “Polygonal finite elements of arbitrary order”, *Conference on the Computation of Electromagnetic Fields (COMPUMAG)*, Montreal, June 28-July 2, 2015.
- [429] M. Nazari and J. P. Webb, “Adaption for 2D edge elements in the nonconforming voxel
- [430] finite element method”, *Conference on the Computation of Electromagnetic Fields (COMPUMAG)*, Montreal, June 28-July 2, 2015.
- [431] P. Diez and J. P. Webb, “A Rational Approach to B-H Curve Representation”, *Conference on the Computation of Electromagnetic Fields (COMPUMAG)*, Montreal, June 28-July 2, 2015.

ZILIC, ZELJKO:

- [432] A. R. Fekr, M. Janidarmian, K. Radecka and Z. Zilic, “Movement Analysis of the Chest Compartments and a Real-Time Quality Feedback During Breathing Therapy”, *Journal of Network Modeling Analysis in Health Informatics and Bioinformatics*, Vol. 4, No. 1, Dec. 2015, 20 pages.

- [433] B. Mihajlovic, Z. Zilic and W. G. Gross, "Architecture-Aware Real-Time Compression of Execution Traces", *ACM Transactions on Embedded Computer Systems (TECS)*, Vol. 14, No. 4, Sep. 2015, DOI:10.1145/2766449, 15 pages.
- [434] A. R. Fekr, M. Janidarmian, K. Radecka and Z. Zilic, "Respiration Disorders Classification with Informative Features for m-Health Applications", *IEEE Journal of Biomedical and Health Informatics (JBHI)*, 2015, DOI: 10.1109/JBHI.2015.2458965, 14 pages. Invited Paper, Acknowledged in the issue editorial by R. Picard and G. Wolf as major novelty.
- [435] A. R. Fekr, K. Radecka and Z. Zilic, "Design and Evaluation of an Intelligent Remote Tidal Volume Variability Monitoring System in E-Health Applications", *IEEE Journal of Biomedical and Health Informatics (JBHI)*, Vol. 19, No. 5, Sep. 2015, pp. 1532-1548.
- [436] MH Neishaburi and Z. Zilic, "System on Chip Failure Rate Assessment Using the Executable Model of a System", *Computing Journal*, Vol. 97, No. 6, Jun. 2015, pp. 611-629.
- [437] A. Roshan Fekr, M. Janidarmian, K. Radecka, Z. Zilic, "Development of a Cloud-Based Monitoring System for Respiration Rate Measurement and Breath Analysis", *Internet of Things – User-Centric IoT*, Springer, May. 2015, pp. 193-202.
- [438] M. Janidarman, A. Roshan Fekr, K. Radecka, Z. Zilic, L. Ross, "Analysis of Motion Patterns for Recognition of Human Activities", *Proceedings of 5th EAI International Conference on Wireless Mobile Communication and Healthcare, "Transforming healthcare through innovations in mobile and wireless technologies"*, Nov. 2015, 6 pages.
- [439] A. Suyyagh, Z. Zilic and J. Tong, "Analytical Study of Meta-heuristics in Energy-aware Real-time Scheduling Problems", *Proceedings of Applied Electrical Engineering and Computing Technologies, (AEECT)*, Nov. 2015, 6 pages.
- [440] B. Nahill and Z. Zilic, "FlogFS: A Lightweight Flash Log File Systems", *Proceedings of 12th International Conference on Wearable and Implantable Body Sensor Networks (BSN)*, Jun. 2015, 6 pages.

II-C.2 OTHER PUBLICATIONS

ARBEL, TAL:

- [1] N. Subbanna*, PhD Thesis, "Iterative Multilevel Probabilistic Graphical Model for Detection and Segmentation of Tumours and Lesions in Brain MRI", *Electrical and Computer Engineering, McGill University*, Defended Dec. 2015.
- [2] • M. Zaltzhendler*, MEng Thesis, "A Deep-Learning Convolutional Neural Network Framework for Multiple Sclerosis Lesion Detection and Segmentation in Patient Brain Images", *Electrical and Computer Engineering, McGill University*, Dec. 2015. Z. Karim-Aghaloo*, PhD Thesis, "Hierarchical Adaptive Voxel and Textural Conditional Random Field for Enhanced Pathology Segmentation", *Electrical and Computer Engineering, McGill University*, October 2014.
- [3] D. Denigris Moreno*, PhD Thesis, "Efficient Multi-modal Image Registration based on Gradient Orientations of Minimal Uncertainty", *Electrical and Computer Engineering, McGill University*, December 2014.
- [4] M. Demirkus*, PhD Thesis, "A Hierarchical Temporal Probabilistic Graphical Model for Labeling and Classifying Faces in Real-World Videos", Co-supervised by J. Clark, Professor, *Electrical and Computer Engineering, McGill University*, November 2014.

BOUFFARD, FRANCOIS:

- [5] A. Jahanbani Ardakani and F. Bouffard, "Acceleration of Umbrella Constraint Discovery in Security-Constrained Generation Scheduling Problems," *IEEE Power & Energy Society General Meeting, Denver, CO*, Jul. 2015.
- [6] M. S. Nazir, F. Bouffard and D. Precup, "Aggregate State Forecasting for a Population of Electric Loads with Learning Capabilities," *INFORMS/CORS Int. Meeting, Montreal, QC*, Jun. 2015.
- [7] M. Quashie, F. Bouffard, R. Jassim, and G. Joós. (2015). Optimal planning of advanced microgrids with an energy management system. *Les cahiers du GERAD, G-2015-126*. Montreal, QC:GERAD.
- [8] H. Nosair and F. Bouffard. (2015). Power system planning under uncertainty: The probabilistic envelopes approach. *Les cahiers du GERAD, G-2015-116*. Montreal, QC: GERAD.

- [9] F. Bouffard. (2015). Energy storage systems for carbon footprint reduction. Les cahiers du GERAD, G-2015-110. Montreal, QC: GERAD.
- [10] H. Nosair and F. Bouffard. (2015). Flexibility management in sustainable power systems: An energy-centric approach. Les cahiers du GERAD, G-2015-64. Montreal, QC: GERAD.
- [11] A. Abiri-Jahromi and F. Bouffard. (2015). On the loadability sets of power systems - Part II: Minimal representations. Les cahiers du GERAD, G-2015-52. Montreal, QC: GERAD.
- [12] A. Abiri-Jahromi and F. Bouffard. (2015). On the loadability sets of power systems - Part I: Characterization. Les cahiers du GERAD, G-2015-51. Montreal, QC: GERAD.
- [13] A. Abiri-Jahromi, N. Dhaliwal and F. Bouffard. (2015). Demand response in smart grids. Les cahiers du GERAD, G-2015-45. Montreal, QC: GERAD.
- [14] H. Nosair and F. Bouffard. (2015). Reconstructing operating reserve: Flexibility for sustainable power systems. Les cahiers du GERAD, G-2015-10. Montreal, QC: GERAD.
- [15] . Abiri-Jahromi, Demand Response as a Power System Resource, PhD thesis, Department of Electrical and Computer Engineering, McGill University, Dec. 2015.
- [16] H. Nosair, Flexibility Envelopes For Power System Operational Planning, PhD thesis, Department of Electrical and Computer Engineering, McGill University, Dec. 2015.
- [17] M. S. Nazir, Unit Commitment with Sub-hourly Generation and Ramp Constraints for Systems with Significant Renewables, MEng thesis, Department of Electrical and Computer Engineering, McGill University, May. 2015.

BOULET, BENOIT:

- [18] Haddadi, A. "Modeling, Control, and Stability Analysis of an Islanded Microgrid" Ph.D. Thesis, Department of Electrical and Computer Engineering, McGill University, 2015, Montreal, Quebec, Canada.
- [19] Najmabadi, A. "Application of a Bidirectional DC-DC in an Electric Powertrain for Medium Duty Delivery Trucks" M.Eng. Thesis, Department of Electrical and Computer Engineering, McGill University, 2015, Montreal, Quebec, Canada.
- [20] Tahmasebi, R. "Modeling and Control of a Solenoid Actuator with Application in Electric Vehicle Transmission" M.Eng. Thesis, Department of Electrical and Computer Engineering, McGill University, 2015, Montreal, Quebec, Canada.
- [21] Rahimi-Mousavi, B. Boulet, H. Vahid Alizadeh, United States patent application No. US 62/056,710 (following US Provisional Patent Submission No. 61883302, ROI 13070), "Seamless two-speed transmission for electric vehicles", Sept. 2015.
- [22] S. Rahimi-Mousavi, B. Boulet, H. Vahid Alizadeh, Canadian Patent Application No. 2,893,5355, "Seamless two-speed transmission for electric vehicles", May 2015.

CHAMPAGNE, BENOIT:

- [23] [1] H. Chung, V. Mani, M. Parchami, X. Pu, S. K. Roy, W.-P. Zhu and B. Champagne, Single and Multi-microphone Techniques of Speech Enhancement for Voice Communications under Adverse Conditions – Part II, McGill and Concordia Universities, Feb. 2015, 40 pages (Microsemi).

COOPERSTOCK, JEREMY R.:

- [24] "Leveraging video in public safety scenarios", invited presentation for Ninth Canadian Public Safety Interoperability Workshop (CITIG 9), Toronto, December 1, 2015. Doctoral Consortium paper and presentation at International Symposium on Haptic Audio-Visual Environments and Games, Oct. 2014.
- [25] V. Vuibert, Efficient and Accurate Performance with Unconstrained Mid-air Interaction. Master's Thesis, Electrical and Computer Engineering, McGill University.
- [26] N. Hieda, Digital Video Projection for Interactive Entertainment. Master's Thesis, Electrical and Computer Engineering, McGill University.*Blum, Jeffrey. "Body-worn sensors for remote implicit communication." Doctoral consortium paper presentation at MobileHCI, Sep 2014.

EL-GAMAL, MOURAD N.:

- [27] M. Parvizi, K. Allidina, and M. N. El-Gamal, "Ultra-Low Power RF Systems and Building Blocks," in Wireless Transceiver Circuits: System Perspectives and Circuit Aspects, W. Rhee and K. Iniewski, Eds.: CRC Press, pp. 335-370, Feb. 6, 2015.

- [28] Mohannad Elsayed, "Novel Architectures for MEMS Inertial Sensors and Resonators Targeting Above-IC Integration," Ph.D. Thesis, *** 201 *** pages, McGill University, Montreal, Quebec, Canada, December 2015.
- [29] Paul Vahe-Cicek, "Platforms and Techniques for the Integration of Microsystems above Integrated Electronic Circuits," Ph.D. Thesis, *** 203 *** pages, McGill University, Montreal, Quebec, Canada, December 2015.

GIANNACOPOULOS, DENNIS:

- [30] Akbarzadeh-Sharbat* A, Giannacopoulos D D. (2015). Second-Order Uniaxial Perfectly Matched Layer for Finite-Element Time-Domain Methods. 20th International Conference on the Computation of Electromagnetic Fields (Compumag 2015), Montreal, Canada, June 28 July 2, 2015, poster presentation #PD3:12.
- [31] Ren D Q, Wei Z, Giannacopoulos D D. (2015). A MapReduce and MPI Programming Model for Distributed Large Scale 3D Mesh Processing. 20th International Conference on the Computation of Electromagnetic Fields (Compumag 2015), Montreal, Canada, June 28 - July 2, 2015, poster presentation #PB3: 7.
- [32] Afshar* F, Akbarzadeh-Sharbat* A, Giannacopoulos D D. (2015). A Provably Stable and Simple FDTD Formulation for Electromagnetic Modeling of Graphene Sheets. 20th International Conference on the Computation of Electromagnetic Fields (Compumag 2015), Montreal, Canada, June 28 - July 2, 2015, oral presentation #OA6:3.(One of only 38 papers selected for oral presentation out of a total of 454, i.e. <8% accepted for oral presentation).
- [33] Abraham* D, Giannacopoulos D D. (2015). Dispersive Möbius Transform Finite Element Time Domain Method on Graphics Processing Units. 20th International Conference on the Computation of Electromagnetic Fields, Montreal, Canada, June 28 - July 2, 2015, poster presentation #PB5: 16.
- [34] El-Kurdi* Y, Fernández* D, Gross W J, Giannacopoulos D D. (2015). Acceleration of the Finite Element Gaussian Belief Propagation Solver Using Minimum Residual Techniques. 20th International Conference on the Computation of Electromagnetic Fields (Compumag 2015), Montreal, Canada, June 28 - July 2, 2015, poster presentation #PD3:13.
- [35] Akbarzadeh-Sharbat* A, Giannacopoulos D D. (2015). Uniaxial PML in Spherical and Cylindrical Coordinates for Finite-Element Time-Domain Formulations. 20th International Conference on the Computation of Electromagnetic Fields (Compumag 2015), Montreal, Canada, June 28 - July 2, 2015, poster presentation #PB5: 15.
- [36] D. Abraham*. (2015). M.Eng. Thesis title "Dispersive Möbius Transform Finite Element Time Domain Method on Graphics Processing Units", Department of Electrical and Computer Engineering, McGill University.
- [37] A. Akbarzadeh-Sharbat*. (2015). Ph.D. Thesis title "Finite-Element Time-Domain Modelling of Dispersive Media and Layered Structures", Department of Electrical and Computer Engineering, McGill University.
- [38] I. Islam, Y. Li and R. Parvu.(2015), Undergraduate Project (ECSE 456) Report. Project title "Real Time Wireless Electricity Monitoring System", Department of Electrical and Computer Engineering, McGill University.
- [39] H. Ijaz, L. Chalhoub, A. Usman and M. Mansour. (2015), Undergraduate Project (ECSE 456) Report. Project title "McLennan-Redpath Power and Sustainability", Department of Electrical and Computer Engineering, McGill University.
- [40] I. Islam, Y. Li and R. Parvu.(2015), Undergraduate Project (ECSE 457) Report. Project title "Real Time Wireless Electricity Monitoring System", Dept. of Electrical and Computer Engineering, McGill University.
- [41] H. Ijaz, L. Chalhoub, A. Usman and M. Mansour. (2015), Undergraduate Project (ECSE 457) Report. Project title "McLennan-Redpath Power and Sustainability", Dept. of Electrical and Computer Engineering, McGill University.

GROSS, WARREN J.:

- [42] N. Onizawa, D. Katagiri, K. Matsumiya, W. J. Gross, and T. Hanyu, "Stochastic Computation for Brainware Massively Parallel Vision Chips," The 2nd International Symposium on Brainware LSI, Sendai, Japan, March 2-3, 2015.

- [43] W. J. Gross, "Algorithms and Architectures for Decoding Polar Codes," The 2nd International Symposium on Brainware LSI, Sendai, Japan, March 2-3, 2015. (invited)
- [44] W. J. Gross, "Bringing Polar Codes to Practice," International Workshop on Polar Code, Hong Kong, June 13, 2015. (invited)
- [45] W. J. Gross, "Internet of Things Research in Electrical and Computer Engineering," Innovate with McGill University: Accelerating your Development in the "Internet of Things", Centre d'entreprises et d'innovation de Montréal (CEIM), Montreal, QC, April 1, 2015. (invited)
- [46] W. J. Gross, "Are Polar Codes Practical," Coding: From Practice to Theory, Berkeley, CA, USA, February 9-13, 2015. (invited)
- [47] M. *Ahmadi, W. Gross, and S. Kadoury, "Real-time Remote Monitoring System for Medical Ultrasound Imaging," McGill Engineering Competition, Montreal, November 6-9, 2015.
- [48] M. *Ahmadi, W. Gross, and S. Kadoury, "Real-time Remote Monitoring System for Medical Ultrasound Imaging," Biological and Biomedical Engineering Symposium 2015, Montreal, September 25-27, 2015.
- [49] M. *Ahmadi, W. Gross, and S. Kadoury, "Real-time Remote Monitoring System for Medical Ultrasound Imaging," McGill Engineering Research Showcase, Montreal, October 5, 2015.

JOOS, GEZA:

- [50] Q. Cui, A. Rodolakis, K. El-Arroudi and G. Joós, "Application of Intelligent Islanding Relays to Hybrid Distributed Generation Resources", CIGRÉ Canada, Winnipeg, Canada, 2015.
- [51] D. Mascarella, K. El Arroudi, Shijia Li, Ross Pottage, G. Joos, "Real-Time Testing of Relay-Fuse Coordination Implemented with IEC 61850 GOOSE Messaging Using Industrial Relays", CIGRÉ Canada, Winnipeg, Canada, 2015.
- [52] Mascarella, D.; El-Arroudi, K.; Li, S.; Pottage, R.; Joos, G.," Real-Time Testing of Recloser-Fuse Coordination Implemented with IEC 61850 GOOSE Messaging Using Industrial Relays " CIGRÉ CANADA 2015, Winnipeg
- [53] G. Joos, "DER integration in interactive distribution grids and microgrids", invited panel presentation, panel on "Smart Grid Innovation in an Integrated Utility Framework), IEEE Innovative Smart Grid Technologies Conference 2015, Washington, Feb 201

LABEAU, FABRICE:

- [54] S. Alam and F. Labeau, Performance Analysis of Multi-relay DF Cooperative Communication over bursty Impulsive Noise Channel Observed in Power Substation, Hydro-Quebec Symposium 3i (Varennes, QC), May 2015.
- [55] J. Oyedapo and F. Labeau, Cooperative Nodes Selection based on Minimum Distance Precoding in Perturbed Environment, Hydro-Quebec Symposium 3i (Varennes. QC), May 2015.
- [56] M. Hajikhani and F. Labeau, Hierarchical energy harvesting for joint power and information transmission in sensor networks, Hydro-Quebec Symposium 3i (Varennes, QC), May 2015.
- [57] S. Ghazanfari Rad and F. Labeau, Diffusion networks with Spatially Correlated Observations and Noises, Hydro-Quebec Symposium 3i (Varennes, QC), May 2015.
- [58] F. Sacuto, F. Labeau and B. Agba, MAP Optimum Receiver Mitigating Correlated Impulsive Noise in Substations, Hydro-Quebec Symposium 3i (Varennes, QC), May 2015.
- [59] X. Enwei and F. Labeau, Energy detector based spectrum sensing under Middleton Class A noise, Hydro-Quebec Symposium 3i (Varennes, QC), May 2015.
- [60] F. Sacuto, Modeling of the impulsive noise in the power substation environment and its application to receiver design, PhD Thesis, December 2015.
- [61] S. Ghazanfari Rad, Adaptation over Networks in the Presence of Transmission Errors and Correlated Observations and Noise, PhD Thesis, November 2015.
- [62] L. Pishdad, Online Bayesian Estimation for Indoor Localization and Positioning, PhD Thesis, July 2015.
- [63] S. Khosravirad, Variable-Length Coding Incremental Redundancy Hybrid Automatic Repeat reQuest (HARQ) over Fading Channels, PhD Thesis, April 2015.

LOWTHER, DAVID A.:

- [64] Li, M., Silva, R., Lowther, D.A., "Global and Local Meta models for the Robust Design of Electrical Machines," Proceedings of the XVII International Symposium on Electromagnetic Fields in Mechatronics (ISEF 2015), Valencia, Spain, pp. 73, 10-12 Sep. 2015.

- [65] Silva, R., Li, M., Lowther, D.A., "The Role of Coarse Models in Space-Mapping: A Study on an IPM Motor Optimization," Proceedings of the XVII International Symposium on Electromagnetic Fields in Mechatronics (ISEF 2015), Valencia, Spain, pp. 66, 10-12 Sep. 2015.
- [66] Hussain, S., Lowther, D.A., "The Prediction of Iron Losses under PWM Excitation using the Classical Preisach Model," Proceedings of the XVII International Symposium on Electromagnetic Fields in Mechatronics (ISEF 2015), Valencia, Spain, pp. 52, 10-12 Sep 2015.
- [67] Hamidzadeh, S., Alatawneh, N., Chromik, R., Lowther, D.A., "Comparison of Different Demagnetization Models of Permanent Magnet in Machines for Electric Vehicle Application," Soft Magnetic Materials Conference, Sao Paulo, Brazil, September 13-16, paper IT06, 2015.
- [68] Saleem, A., Alatawneh, N., Chromik, R., Lowther, D.A., "Effect of Shear Cutting of Microstructure and Magnetic Properties of Non-Oriented Electrical Steel," Soft Magnetic Materials Conference, Sao Paulo, Brazil, September 13-16, Paper AM10, 2015.
- [69] Alatawneh, N., Rahman, T., Lowther, D.A., Chromik, R., "Design and Analysis of a Toroidal Tester for the Measurement of Core Losses under Axial Compressive Stress," Soft Magnetic Materials Conference, Sao Paulo, Brazil, September 13-16, Paper ET03, 2015.
- [70] Saeed, O., Saleem, A., Alatawneh, N., Lowther, D.A., Chromik, R., "An Experimental Study on Magnetic Ageing of Electrical Steel," Soft Magnetic Materials Conference, Sao Paulo, Brazil, September 13-16, paper AM06, 2015.

MAHAJAN, ADITYA:

- [71] S. Li*, A. Khisti, and A. Mahajan, "Privacy-optimal strategies for smart metering systems with a rechargeable battery," Les Cahiers du GERAD, no. G-2015-132, Dec 2015.
- [72] J. Arabneydi* and A. Mahajan, "Linear Quadratic Mean-Field Teams," Les Cahiers du GERAD, no. G-2015-121, Nov 2015.
- [73] C. Cui* and A. Mahajan, "On computing optimal thresholds in decentralized sequential hypothesis testing," Les Cahiers du GERAD, no. G-2015-67, July 2015.
- [74] J. Chakravorty* and A. Mahajan, "Fundamental limits of remote estimation of Markov processes under communication constraints," Les Cahiers du GERAD, no. G-2015-53, May 2015.
- [75] C. Ma*, B. Meyer, A. Mahajan, "Multi-armed bandits for MPSoC design for reliability", McGill Engineering Research Symposium (MERS), Oct, 2015.
- [76] M. Mannan*, "Finite-state approximation for a class of POMDPs and comparison of reinforcement learning algorithms for managing energy storage in renewable generation", MEng Thesis, April 2015.
- [77] C. Cui*, "On computing optimal thresholds for sequential hypothesis testing", MEng Thesis, August 2015.

MI, ZETIAN:

- [78] F. J. Himpfel, P. L. Cook, I. Zegkinoglou, I. Boukahil, R. Qiao, W. Yang, S. C. Pemmaraju, D. Prendergast, C. X. Kronawitter, M. G. Kibria, Z. Mi, L. Vayssieres, Synchrotron-based spectroscopy for solar energy conversion, Proc. SPIE, vol. 9560, Solar Hydrogen and Nanotechnology X, 95600G, 2015.
- [79] Z. Mi, S. Zhao, X. Liu, A. T. Connie, K. H. Li, and Q. Wang, "High efficiency AlGaIn deep ultraviolet nanowire LEDs and lasers on Si," Proc. SPIE, vol. 9373, 937306, 2015.
- [80] H. P. T. Nguyen, M. Djavid, S. Y. Woo, X. Liu, Q. Wang, G. A. Botton, and Z. Mi, "High power phosphor-free InGaIn/AlGaIn dot-in-a-wire core-shell white-light-emitting diodes," Proc. SPIE, vol. 9383, 938307, 2015.
- [81] K. H. Li, X. Liu, S. Zhao, Q. Wang, and Z. Mi, "Ultralow threshold electrically injected AlGaIn nanowire ultraviolet lasers on Si," Proc. SPIE, vol. 9363, 93631D, 2015.

MUSSBACHER, GUNTER:

- [82] Balaban, M., Chiorean, D., Cheng, B., Clarke, P., Mussbacher, G., Lethbridge, T., Badreddin, O., Georg, G., Liebel, G., Stikkolorum, D., Pelozo, E., and Sturm, A. (2015) Software models in practice in student projects. Panelist, Educators Symposium at MODELS 2015, Ottawa, Canada, CEUR-WS 1555:76-80.
- [83] Schöttle, M., Kienzle, J., and Mussbacher, G. (2015) A Three-Part Interface for Next Generation Reuse: Variation, Customization, and Usage. Presentation, Consortium for Software Engineering Research (CSER) 2015 Spring Meeting, Montreal, Canada, March 2015.

- [85] Duran, M.B. and Mussbacher, G. (2015) Enabling Reuse With Relative Contribution Values in Goal Models. Presentation, 1st Concern-Oriented Reuse (CORE) at Bellairs Workshop, McGill Bellairs Research Institute, Barbados, January-February 2015.
- [86] Alam, O., Kienzle, J., and Mussbacher, G. (2015) Concern-Driven Software Development. Technical Report SOCS-TR-2015.1, School of Computer Science, McGill University, Montreal, Canada, February 2015. PSAROMILIGKOS, Ioannis:
- [87] A. Salehi Nobandegani, and I. N. Psaromiligkos, "Multi-Context Models for Reasoning under Partial Knowledge: Generative Process and Inference Grammar," arXiv:1412.4271 [cs.AI]
- [88] Kabbara, Jad. Kernel adaptive filtering algorithms with improved tracking ability. MEng Thesis.

ROBERTS, GORDON:

- [89] M. Abdelfattah and G. W. Roberts, "Time-Mode Circuit Concepts And Their Transition To All-Digital Synthesizable Circuits," in CMOS Time-Mode Circuits and Systems: Principles and Application, Eds. K. Iniewski and F. Yuan, CRC Press, 2015 (in press).
- [90] S. Ziabakhsh, G. Gagnon and G. W. Roberts, "Time-Mode Delta-Sigma Converters," in CMOS Time-Mode Circuits and Systems: Principles and Application, Eds. K. Iniewski and F. Yuan, CRC Press, 2015 (in press)