

Yang, Dan ; Qian, Yanlin ; Cai, Dingding ; Yan, Song ; Kämäräinen, Joni-Kristian ; Chen, Ke. / **Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation**. 9th International Conference on Information Science and Technology, ICIST 2019. IEEE, 2019. Sivut 65-70

Zhidanov, Konstantin ; Bezzateev, Sergey ; Afanasyeva, Alexandra ; Sayfullin, Mikhail ; Vanurin, Sergey ; Bardinova, Yulia ; Ometov, Aleksandr. / **Blockchain Technology for Smartphones and Constrained IoT Devices : A Future Perspective and Implementation**. 21st IEEE Conference on Business Informatics, CBI 2019. Toimittaja / Jorg Becker ; Oscar Pastor ; Elena Kornyshova ; V. O. Korepanov ; Olga A. Tsukanova ; Judith Barrios Albornoz ; D. Fedyanin ; V.N. Burkov ; Dmitry M. Nazarov ; Dmitriy Novikov ; Raisa Uskenbaeva ; A V. Shchepkin. IEEE, 2019. Sivut 20-27

Phan, Duy ; Rodrigues, Sérgio S. / **Approximate Controllability for Navier–Stokes Equations in 3D Rectangles Under Lions Boundary Conditions**. Julkaisussa: Journal of Dynamical and Control Systems. 2019 ; Vuosikerta 25, Nro 3. Sivut 351-376.

Piche, Robert. / **Automatic numerical differentiation by maximum likelihood estimation of a linear Gaussian state space model**. 2019 18th European Control Conference, ECC 2019. IEEE, 2019. Sivut 1861-1865

Pyrhönen, Veli-Pekka ; Vilkkö, Matti K. / **Composite nonlinear feedback control of a JIB trolley of a tower crane behaviors**. 2019 18th European Control Conference, ECC 2019. IEEE, 2019. Sivut 1124-1129

Koivikko, Anastasia ; Sariola, Veikko. / **Fabrication of soft devices with buried fluid channels by using sacrificial 3D printed molds**. 2019 2nd IEEE International Conference on Soft Robotics (RoboSoft). IEEE, 2019. Sivut 509-513

Rossi, Mattia ; Liegmann, Eyke ; Karamanakos, Petros ; Castelli-Dezza, Francesco ; Kennel, Ralph. / **Direct model predictive power control of a series-connected modular rectifier**. PRECEDE 2019: 2019 IEEE International Symposium on Predictive Control of Electrical Drives and Power Electronics. IEEE, 2019.

Wendel, Sebastian ; Karamanakos, Petros ; Dietz, Armin ; Kennel, Ralph. / **Operating point dependent variable switching point predictive current control for PMSM drives**. PRECEDE 2019: 2019 IEEE International Symposium on Predictive Control of Electrical Drives and Power Electronics. IEEE, 2019.

De Biasi, Marzio ; Lauri, Juho. / **On the complexity of restoring corrupted colorings**. Julkaisussa: Journal of Combinatorial Optimization. 2019 ; Vuosikerta 37, Nro 4. Sivut 1150-1169.

Halme, Jari ; Jantunen, Erkki ; Hastbacka, David ; Hegedus, Csaba ; Varga, Pal ; Bjorkbom, Mikael ; Mesia, Heikki ; More, Rupesh ; Jaatinen, Antti ; Barna, Laurentiu ; Tuominen, Pasi ; Pettinen, Henri ; Elo, Marko ; Larranaga, Martin. / **Monitoring of production processes and the condition of the production equipment through the internet**. 2019 6th International Conference on Control, Decision and Information Technologies, CoDIT 2019. IEEE, 2019. Sivut 1295-1300

Suntio, Teuvo ; Messo, Tuomas ; Berg, Matias ; Alenius, Henrik ; Reinikka, Tommi ; Luhtala, Roni ; Zenger, Kai. / **Impedance-based interactions in grid-tied three-phase inverters in renewable energy applications**. Julkaisussa: Energies. 2019 ; Vuosikerta 12, Nro 3.

Amer, Eyal ; Kuperman, Alon ; Suntio, Teuvo. / **Direct fixed-step maximum power point tracking algorithms with adaptive perturbation frequency**. Julkaisussa: Energies. 2019 ; Vuosikerta 12, Nro 3.

Gusrialdi, Azwirman ; Xu, Ying ; Qu, Zhihua ; Simaan, Marwan A. / **A Real-Time Big Data Control-Theoretical Framework for Cyber-Physical-Human Systems**. Computational Intelligence and Optimization Methods for Control Engineering. Springer International Publishing, 2019. Sivut 149-172 (Springer Optimization and Its Applications).

Woldemariam, Endashaw Tesfaye ; Coatanéa, Eric ; Wang, G. Gary ; Lemu, Hirpa G. ; Wu, Di. / **Customized dimensional analysis conceptual modelling framework for design optimization—a case study on the cross-flow micro turbine model**. Julkaisussa: Engineering Optimization. 2019 ; Vuosikerta 51, Nro 7. Sivut 1168-1184.

Luhtala, Roni ; Messo, Tuomas ; Roinila, Tomi ; Alenius, Henrik ; Jong, Erik De ; Burstein, Andrew ; Fabian, Alejandra. / **Identification of three-phase grid impedance in the presence of parallel converters.** Julkaisussa: Energies. 2019 ; Vuosikerta 12, Nro 14.

Suntio, Teuvo ; Messo, Tuomas. / **Power electronics in renewable energy systems.** Julkaisussa: Energies. 2019 ; Vuosikerta 12, Nro 10.

Ivanov, Pavel ; Raitoharju, Matti ; Piché, Robert. / **Kalman-Type Filters and Smoothers for Pedestrian Dead Reckoning.** IPIN 2018 - 9th International Conference on Indoor Positioning and Indoor Navigation. IEEE, 2018.

Ortombina, L. ; Liegmann, E. ; Karamanakos, P. ; Tinazzi, F. ; Zigliotto, M. ; Kennel, R. / **Constrained Long-Horizon Direct Model Predictive Control for Synchronous Reluctance Motor Drives.** 2018 IEEE 19th Workshop on Control and Modeling for Power Electronics, COMPEL 2018. IEEE, 2018.

Mäkinen, Petri ; Mononen, Teemu ; Mattila, Jouni. / **Inertial Sensor-Based State Estimation of Flexible Links Subject to Bending and Torsion.** 2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018. IEEE, 2018.

Teke, Burak ; Lanz, Minna ; Kämäräinen, Joni-Kristian ; Hietanen, Antti. / **Real-time and Robust Collaborative Robot Motion Control with Microsoft Kinect @ v2.** 2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018. IEEE, 2018.

Mahmoodpour, Mehdi ; Lobov, Andrei ; Lanz, Minna ; Mäkelä, Petteri ; Rundas, Niko. / **Role-based visualization of industrial IoT-based systems.** 2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018. IEEE, 2018.

Ghabcheloo, Reza ; Siddiqui, Shadman. / **Complete Odometry Estimation of a Vehicle Using Single Automotive Radar and a Gyroscope.** MED 2018 - 26th Mediterranean Conference on Control and Automation. IEEE, 2018. Sivut 855-860

Pihlajasalo, Jaakko ; Leppäkoski, Helena ; Ali-Löytty, Simo ; Piché, Robert. / **Improvement of GPS and BeiDou extended orbit predictions with CNNs.** 26th European Navigation Conference, ENC 2018: Gothenburg, Sweden, 14-17 May, 2018. IEEE, 2018. Sivut 54-59

Koponen, Pekka ; Hanninen, Seppo ; Mutanen, Antti ; Koskela, Juha ; Rautiainen, Antti ; Järventausta, Pertti ; Niska, Harri ; Kolehmainen, Mikko ; Koivisto, Hannu. / **Improved modelling of electric loads for enabling demand response by applying physical and data-driven models : Project Response.** 2018 IEEE International Energy Conference, ENERGYCON 2018. IEEE, 2018. Sivut 1-6

Muhammad, Usman ; Ferrer, Borja Ramis ; Mohammed, Wael M. ; Lastra, Jose L.Martinez. / **An approach for implementing key performance indicators of a discrete manufacturing simulator based on the ISO 22400 standard.** 2018 IEEE Industrial Cyber-Physical Systems, ICPS 2018. IEEE, 2018. Sivut 629-636

Hussnain, Ali ; Ferrer, Borja Ramis ; Lastra, Jose L.Martinez. / **Towards the deployment of cloud robotics at factory shop floors : A prototype for smart material handling.** 2018 IEEE Industrial Cyber-Physical Systems, ICPS 2018. IEEE, 2018. Sivut 44-50

Kotilainen, Kirsi ; Mäkinen, Saku J. ; Valta, Jussi. / **Sustainable electric vehicle - Prosumer framework and policy mix.** 2017 IEEE Innovative Smart Grid Technologies - Asia: Smart Grid for Smart Community, ISGT-Asia 2017. IEEE, 2018. Sivut 1-6

Bolla, Padma ; Lohan, Elena-Simona. / **Dual-frequency signal processing architecture for robust and precise positioning applications.** 2018 IEEE/ION Position, Location and Navigation Symposium, PLANS 2018. IEEE, 2018. Sivut 72-80

Phan, Duy ; Rodrigues, Sérgio S. / **Stabilization to trajectories for parabolic equations**. Julkaisussa: Mathematics of Control, Signals, and Systems. 2018 ; Vuosikerta 30, Nro 2.

Almaeeni, Sara ; Sofotasios, Paschalis C. ; Muhaidat, Sami ; Karagiannidis, George K. / **Analysis of differentially modulated cooperative communications over asymmetric fading channels**. Proceedings - 2018 International Conference on Advanced Communication Technologies and Networking, CommNet 2018. IEEE, 2018. Sivut 1-8

Sofotasios, Paschalis C. ; Yoo, Seong Ki ; Bhargava, Nidhi ; Muhaidat, Sami ; Cotton, Simon L. ; Matthaiou, Michail ; Valkama, Mikko ; Karagiannidis, George K. / **Capacity analysis under generalized composite fading conditions**. Proceedings - 2018 International Conference on Advanced Communication Technologies and Networking, CommNet 2018. IEEE, 2018. Sivut 1-10

Mohamed, Saad ; Hamila, Ridha ; Al-Dhahir, Naofal ; Gouissem, Ala ; Benbrahim, Lazhar ; Gabbouj, Moncef. / **Maximum achievable throughput and interference mitigation for SUN in coexistence with WLAN**. Proceedings - 2018 International Conference on Advanced Communication Technologies and Networking, CommNet 2018. IEEE, 2018. Sivut 1-6

Selim, Bassant ; Muhaidat, Sami ; Sofotasios, Paschalis C. ; Sharif, Bayan S. ; Stouraitis, Thanos ; Karagiannidis, George K. ; Al-Dhahir, Naofal. / **Outage probability of multi-carrier NOMA systems under joint I/Q imbalance**. Proceedings - 2018 International Conference on Advanced Communication Technologies and Networking, CommNet 2018. IEEE, 2018. Sivut 1-7

Lee, Yaesop ; Madayambath, Sreenuj Chellath ; Liu, Yanzhou ; Lin, Da Ting ; Chen, Rong ; Bhattacharyya, Shuvra S. / **Online learning in neural decoding using incremental linear discriminant analysis**. 2017 IEEE International Conference on Cyborg and Bionic Systems, CBS 2017. IEEE, 2018. Sivut 173-177

Suntio, Teuvo. / **Dynamic modeling and analysis of PCM-controlled DCM-operating buck converters-A reexamination**. Julkaisussa: Energies. 2018 ; Vuosikerta 11, Nro 5. Sivut 1-18.

van Mellaert, R. ; Mela, K. ; Tiainen, T. ; Heinisuo, M. ; Lombaert, G. ; Schevenels, M. / **Mixed-integer linear programming approach for global discrete sizing optimization of frame structures**. Julkaisussa: Structural and Multidisciplinary Optimization. 2018 ; Vuosikerta 57, Nro 2. Sivut 579-593.

Palagi, Stefano ; Mark, Andrew G. ; Melde, Kai ; Qiu, Tian ; Zeng, Hao ; Parmeggiani, Camilla ; Martella, Daniele ; Wiersma, Diederik S. ; Fischer, Peer. / **Locomotion of light-driven soft microrobots through a hydrogel via local melting**. International Conference on Manipulation, Automation and Robotics at Small Scales, MARSS 2017 - Proceedings. IEEE, 2017.

Kreutzer, Joose ; Viehrig, Marlitt ; Maki, Antti-Juhana ; Kallio, Pasi ; Rahikainen, Rolle ; Hytönen, Vesa. / **Pneumatically actuated elastomeric device for simultaneous mechanobiological studies & live-cell fluorescent microscopy**. International Conference on Manipulation, Automation and Robotics at Small Scales, MARSS 2017 - Proceedings. IEEE, 2017.

Ometov, Aleksandr ; Solomitchii, Dmitrii ; Olsson, Thomas ; Bezzateev, Sergey ; Shchesniak, Anna ; Andreev, Sergey ; Harju, Jarmo ; Koucheryavy, Yevgeni. / **Secure and connected wearable intelligence for content delivery at a mass event : A case study**. Julkaisussa: Journal of Sensor and Actuator Networks. 2017 ; Vuosikerta 6, Nro 2.

Kivimäki, Jyri ; Sitbon, Moshe ; Kolesnik, Sergei ; Kuperman, Alon ; Suntio, Teuvo. / **Determining maximum MPP-tracking sampling frequency for input-voltage-controlled PV-interfacing converter**. 8th Annual IEEE Energy Conversion Congress & Exposition (ECCE 2016). IEEE, 2017.

Laakkonen, Alpo Antti Petteri. / **A reformulation of the internal model principle using factorization approach**. Julkaisun esittämispaikka: CDPS 2017, Workshop on Control of Distributed Parameter Systems, Bordeaux, France, .

Paunonen, Lassi ; Seifert, David. / **Asymptotics for infinite systems of differential equations**. Julkaisussa: SIAM Journal on Control and Optimization. 2017 ; Vuosikerta 55, Nro 2. Sivut 1153-1178.

Paunonen, Lassi. / **Robust controllers for regular linear systems with infinite-dimensional exosystems**. Julkaisussa: SIAM Journal on Control and Optimization. 2017 ; Vuosikerta 55, Nro 3. Sivut 1567-1597.

Paunonen, Lassi ; Seifert, David. / **Asymptotic Behaviour of Platoon Systems**. Proceedings of the 22nd International Symposium on Mathematical Theory of Networks and Systems. University of Minnesota, 2016. Sivut 830-836

Humaloja, Jukka-Pekka ; Paunonen, Lassi ; Pohjolainen, Seppo. / **Robust Regulation for First-Order Port-Hamiltonian Systems**. Proceedings of the 15th European Control Conference, Aalborg, Denmark, June 29th - July 1st, 2016. IEEE, 2016.

Humaloja, Jukka-Pekka ; Paunonen, Lassi ; Pohjolainen, Seppo. / **Robust Regulation for Port-Hamiltonian Systems of Even Order**. Proceedings of the 22nd International Symposium on Mathematical Theory of Networks and Systems, Minneapolis, MN, USA, July 12-15, 2016. University of Minnesota, 2016. Sivut 152-156

Karamanakos, Petros ; Geyer, Tobias ; Kennel, Ralph. / **Computationally efficient optimization algorithms for model predictive control of linear systems with integer inputs**. 2015 54th IEEE Conference on Decision and Control, CDC 2015. 2015. Sivut 3663-3668

Laakkonen, Petteri ; Pohjolainen, Seppo. / **Frequency domain robust regulation of signals generated by an infinite-dimensional exosystem**. Julkaisussa: SIAM Journal on Control and Optimization. 2015 ; Vuosikerta 53, Nro 1. Sivut 139-166.

Paunonen, Lassi. / **On Robust Output Regulation for Continuous-Time Periodic Systems**. 2015 Proceedings of the SIAM Conference on Control and its Applications. SIAM, Society for Industrial and Applied Mathematics, 2015.

Laakkonen, Petteri ; Quadrat, Alban. / **Robust Regulation of SISO Systems: The Fractional Ideal Approach**. Proceedings of the SIAM Conference on Control and Its Applications (CT15). SIAM, Society for Industrial and Applied Mathematics, 2015. Sivut 311-318

Seppälä, Jari ; Salmenperä, Mikko. / **Towards dependable automation**. Cyber Security: Analytics, Technology and Automation: Part IV. Springer International Publishing, 2015. Sivut 229-249 (Intelligent Systems, Control and Automation: Science and Engineering).

Min, Jin ; Xiang, Zhou ; Zhiming, Zhang ; Tentzeris, Manos M. / **A hybrid optimization grey model based on segmented grey and multi-strategy contest for short-term power load forecasting**. Julkaisussa: JOURNAL OF GREY SYSTEM. 2012 ; Vuosikerta 24, Nro 1. Sivut 15-28.

Gadoura, Idris ; Suntio, Teuvo ; Zenger, Kai ; Vallittu, Petri. / **Soft computing-based controller design for a telecom rectifier**. SMCia 1999 - Proceedings of the 1999 IEEE Midnight-Sun Workshop on Soft Computing Methods in Industrial Applications. Toimittaja / Jarno Martikainen. Institute of Electrical and Electronics Engineers Inc., 1999. Sivut 80-85 (SMCia 1999 - Proceedings of the 1999 IEEE Midnight-Sun Workshop on Soft Computing Methods in Industrial Applications).