

### **Co-design of a wireless networked control system for reliability and resource-efficiency**

**Ashraf, Kanwal; Le Moullec, Yannick; Pardy, Tamas; Rang, Toomas** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 7 p <https://doi.org/10.1109/BEC61458.2024.10737965>

### **Co-design of wireless networked control systems : a reliable and resource-efficient approach**

**Ashraf, Kanwal; Le Moullec, Yannick; Pardy, Tamas; Rang, Toomas** techrxiv.org 2024 / 9 p. : ill <https://www.techrxiv.org/users/693853/articles/683291-co-design-of-wireless-networked-control-systems-a-reliable-and-resource-efficient-approach>

### **Method for minimax optimization of power system operation**

**Valdma, Mati; Keel, Matti; Liik, Olev; Tammoja, Heiki** 2003 IEEE Bologna PowerTech : conference proceedings : 23-26 June, 2003, Faculty of Engineering, University of Bologna, Bologna, Italy. Vol. 4 2003 / [6] p. : ill <https://ieeexplore.ieee.org/document/1304670>

### **Model predictive control of descriptor systems**

**Nosrati, Komeil; Belikov, Juri; Tepļakov, Aleksei; Petlenkov, Eduard** IEEE Control Systems Letter 2024 / p. 2139 - 2144 <https://doi.org/10.1109/LCSYS.2024.3448310> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **An optimal control method for an autonomous surface vessel for environment monitoring and cargo transportation applications**

**Astrov, Igor; Udal, Andres; Mölder, Heigo** 2021 25th International Conference Electronics : Proceedings of the 25th International Conference : ELECTRONICS 2021, Kaunas University of Technology, 14th–16th June, 2021, Palanga, Lithuania 2021 / 6 p <https://doi.org/10.1109/IEEECONF52705.2021.9467483>

### **An optimal control method for storage systems with ramp constraints, based on an on-going trimming process**

Zargari, Noa; Ofir, Ron; Chowdhury, Nilanjan Roy; **Belikov, Juri**; Levron, Yoash IEEE Transactions on Control Systems Technology 2023 / p. 493-496 <https://doi.org/10.1109/TCST.2022.3169906> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Optimal control of automatic manipulator for elimination of galvanic line load oscillation**

Autsou, Siarhei; **Rassõlkin, Anton; Vaimann, Toomas; Demidova, Galina**; Saroka, Viktor; Karpovich, Dzmitry; **Kallaste, Ants** Periodica polytechnica electrical engineering and computer science 2021 / 15 p. : ill <https://doi.org/10.3311/PPee.15893> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Optimal control of energy storage devices based on Pontryagin's minimum principle and the shortest path method**

Zargari, Noa; Levron, Yoash; **Belikov, Juri** Proceedings of 2019 IEEE PES : Innovative Smart Grid Technologies Europe : (ISGT-Europe), Bucharest Romania, 29 September – 2 October, 2019 2019 / 5 p <https://doi.org/10.1109/ISGTEurope.2019.8905748>

### **Optimal reactive power control in a multi-machine thermal power plant**

**Trummal, Tarmo; Andreesen, Guido; Kilter, Jako** 2020 21st International Scientific Conference on Electric Power Engineering (EPE), October 19-21, 2020, Prague, Czech Republic 2020 <https://doi.org/10.1109/EPE51172.2020.9269239>

### **Optimal tracking control of catamaran sailboat model in a smart city**

**Astrov, Igor** Automation, Robotics & Communications for Industry 4.0/5.0 : proceedings of the 4th Winter IFSA Conference on Automation, Robotics & Communications for Industry 4.0/5.0 (ARCI' 2024), 7-9 February 2024, Innsbruck, Austria 2024 / p. 78–83 : ill <https://doi.org/10.13140/RG.2.2.20923.18722>

### **Overview of the use of Bellman dynamic programming method to eliminate oscillations in mechanical and electrical assemblies of technical objects**

Autsou, Siarhei; Saroka, Viktor; Karpovich, Dzmitry; **Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p <https://doi.org/10.1109/PQ.2019.8818246>

### **Reducing of hanger-to-motor oscillations of galvanic line auto-operator**

Autsou, Siarhei; **Rassõlkin, Anton; Demidova, Galina; Vaimann, Toomas**; Karpovich, Dzmitry; Saroka, Viktor 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 43-48 <https://doi.org/10.1109/ICEPDS47235.2020.9249311>

### **Revisiting the LQR problem of singular systems**

**Nosrati, Komeil; Belikov, Juri; Tepļakov, Aleksei; Petlenkov, Eduard** IEEE/CAA Journal of Automatica Sinica 2024 / p. 2236-2252 : ill <https://doi.org/10.1109/JAS.2024.124665> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A trajectory control method for a strongly underactuated spherical underwater surveillance robot**

**Astrov, Igor; Udal, Andres; Mölder, Heigo** 2021 IEEE 25th International conference on intelligent engineering systems (INES), 7-9 July 2021 : conference proceedings 2021 / p. 43–48 <https://doi.org/10.1109/INES52918.2021.9512931>

### **Wind force model and adaptive control of catamaran model sailboat**

