Modern Automotive Electrical Systems
Theory | Development | and Simulations for Electric Vehicles

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IMPORTANT DATES
Abstract submission (~500): 25/12/2020
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BOOK CHAPTER CALL SCOPE
• Introduction to modern transportation electrification: benefits and challenges
• Data-driven environmental impact of traditional and electrified vehicles
• The life cycle of the electrical, and electronic components in automotive applications
• Overview of powertrain configurations in e-mobility: theory, modelling, and technology
• Digital and power electronics in automotive electrical systems
• Cabling design and sizing technology
• Advances in electric propulsion systems: electrical machines and drives
• Intelligent techniques for demand-side management
• Energy storage systems modelling for electrified vehicles
• Control techniques and algorithms in automotive electrical, and electronic systems
• Energy management strategies and algorithms in automotive systems
• Charger and charging technologies
• Electric Vehicles Systems and Technology: auxiliary systems
• Application of deep learning and reinforcement learning for electrical systems
• Artificial intelligent techniques for electric vehicles
• IoT for electric vehicles
• Wireless electric vehicle charging infrastructure
• Blockchain technologies for electrical systems
• Optimisation methods for electrical units sizing (battery, e-motors, etc.)
• Typhoon software for electric vehicle modelling and simulation
• Case studies on the above subjects using MATLAB Simulink software

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* Please use consistent font 11, Times New Roman, single column, images >600dpi
** Displayed equations are double numbered by chapter, in parentheses
*** Variables are italicized in the equations and in the text
**** All questions about submissions should be emailed to p.asef@herts.ac.uk and san@et.aau.dk.