

- Deep Learning
 Cyber-Physical Energy Systems
 Software Engineering
 Energy Cloud Computing

Research Challenges

- Shifting energy production to renewable and low-carbon sources;
 Enabling power converter dominated power systems;
 Expanding displatation among energy systems to achieve previously unseen levels of coordination and optimization;
 Expanding computational advances to spread intelligence throughout the system, from physic-edges to extensive clouds;
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 Emproving power processing capacities of power systems, moning from electronechanical generation and passive demand to power active convert

 Managing bi-directional energy flows, as consumers play an active role in energy supply and demand;
 Unlocking demand response and interprating small-scale generation and storage, from the residential and industrial sectors;
 Developing new energy conversion options (P2X) and integrating different energy vectors (electricity, molecule-based energy vectors, heating/cool

- Renewable energy generation/conversion system
 Electric grids and infrastructures
 Smart grid technologies
 Distributed control systems
 Microgrids
 Microgrids
 Multi-terminal dc and hybrid ac/dc networks
 Power conversion systems
 Foregy storage systems
 Fuel-cell conversion systems
 Fuel-cell conversion systems
 Fuel-cell conversion systems

- Electric vehicle charging
 Energy Internet and digital platforms
 Computational energy intelligence
- Main assets

- Three interconnected RT-simulation systems

 Smart meters, PMU and RTU measurement systems interfaced with RT simulators

 Hetson/feed controllers supporting multiple communication protocols for edge-control vigils review of the systems of the syst

Selected publications

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