2014 IEEE Symposium on Computational Intelligence Applications in Smart Grid

(CIASG 2014)

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Wednesday, December 10

9:20AM-10:00AM

CIASG’14 Keynote Talk:

*Computational Systems Thinking for Transformation of Smart Grid Operations*
Kumar Venayagamoorthy

10:20AM-12:00PM

CIASG’14 Session 1: Forecasting and Predictions in Smart Grids
Chair: G. Kumar Venayagamoorthy

10:20AM  *A Time Series Ensemble Method to Predict Wind Power* .....................................................1  
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11:00AM  *Comparison of Echo State Network and Extreme Learning Machine for PV Power Prediction* .................................................................14  
Iroshani Jayawardene and Ganesh Venayagamoorthy

11:20AM  *Accurate Localized Short Term Weather Prediction for Renewables Planning* ..........22  
David Corne, Manjula Dissanayake, Andrew Peacock, Stuart Galloway and Edward Owens

11:40AM  *Intelligent Analysis of Wind Turbine Power Curve Models* ................................................30  
Arman Goudarzi, Innocent Davidson, Afshin Ahmadi and Ganesh Kumar Venayagamoorthy

1:30PM-3:10PM

CIASG’14 Session 2: Micro-grids & Electric Vehicles
Chair: Edgar Sanchez

1:30PM  *Performance of a Smart Microgrid with Battery Energy Storage System’s Size and State of Charge* ................................................................................................................... N/A  
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1:50PM  *A Simple Recurrent Neural Network for Solution of Linear Programming: Application to a Microgrid* .................................................................44  
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2:10PM  *Parallel Tempering for Constrained Many Criteria Optimization in Dynamic Virtual Power Plants* ...........................................................................51  
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CIASG’14 Session 3: Markets
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1:30PM-3:10PM

CIASG’14 Session 5: Optimization and Scheduling
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3:30PM-5:10PM

CIASG’14 Session 6: Stability and Analysis
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