NILM2016

MAY 14 – 15 | VANCOUVER, CANADA

3RD INTERNATIONAL WORKSHOP ON NON-INTRUSIVE LOAD MONITORING
HTTP://NILMWORKSHOP.ORG/2016/

WORKSHOP PROGRAM

Time	Event	Presenters/Authors
Day 1: Saturday, May 14		
Time	**Event**	**Presenters/Authors**
9:00 AM		Registration & Breakfast
9:20 AM		
9:40 AM		**Day 1 Welcome Address by Stephen Makonin & Andrew Berrisford**
10:00 AM	Topic: **Energy Analytics**	Bruce Townson (Ecotagious) - NILM: Vehicle or Destination?
10:20 AM		Vivek Garud (Bidgely) - Crowdsourcing Appliance Labels for Energy Disaggregation
10:40 AM		Topic Discussion & Bio Break
11:00 AM		**Keynote by Dr. Lyn Bartram** - Eco-Visualizations: Visualizing NILM and appliance level data (title tbc)
11:20 AM		
11:40 AM		
12:00 PM		**Lunch Break**
12:20 PM		
12:40 PM		
1:00 PM	Topic: **Value Proposition**	Paper 20: Is disaggregated electricity feedback more effective than aggregate feedback at reducing energy consumption?
1:20 PM		Paper 8: If You Measure It, Can You Improve It? Exploring The Value of Energy Disaggregation
1:40 PM		Paper 22: Can We Find the End Use in Smart Metering Data?
2:00 PM		Topic Discussion & Bio Break
2:20 PM	Topic: **Industry & Power Utilities**	Claude Godin (DNV-GL) - Q&A Discussion Panel of Invited Panelists. Panel Members: Chris Homes (EPRI), Wenpeng Luan (China EPRI), Bill Bush (Enetics), Katie Russell (ONZO)
2:40 PM		
3:00 PM		
3:20 PM		**Afternoon Coffee/Tea Break**
3:40 PM	Topic: **Applications**	Paper 4: How well can HMM model load signals
4:00 PM		Paper 9: Neural Network Ensembles to Real-time Identification of Plug-level Appliance Measurements
4:20 PM		Paper 7: Gemello: Creating a Detailed Energy Breakdown from just the Monthly Electricity Bill
4:40 PM		Romain Benassi (HomePulse) - Disaggregation of space heating and water heating from real life 10-minute load curves
5:00 PM		Topic Discussion & Bio Break
5:20 PM	**Poster Celebration**	Poster Lightning Talks
5:40 PM		Poster Session (12+ posters)
6:00 PM		
6:20 PM		
6:30 PM to Late		**Workshop Social & Reception** (everyone walks to Big Smoke Burger)
Day 2: Sunday, May 15		
Time	**Event**	**Presenters/Authors**
9:00 AM		Registration & Breakfast
9:20 AM		
9:40 AM		**Day 2 Welcome Address by Stephen Makonin**
10:00 AM	Topic: **Data & Datasets**	Grant Fisher (Pecan Street) - Pecan Street's Dataport
10:20 AM		Paper 2: Handling Imperfections in Energy Disaggregation
10:40 AM		Topic Discussion & Bio Break
11:00 AM		**Keynote by Dr. George W. Hart** - Life After NILM
11:20 AM		
11:40 AM		
12:00 PM		**Lunch Break**
12:20 PM		
12:40 PM		
1:00 PM	Topic: **Meters & Hardware**	Robert Sonderegger (Itron) - The RIVA Meter and Platform
1:20 PM		Etienne Barnard (Sense) - The Sense energy monitor: real-time load disaggregation using signals with high time resolution
1:40 PM		Topic Discussion & Bio Break
2:00 PM	Topic: **Algorithms, Part 1**	Paper 19: The Neural Energy Decoder: Energy Disaggregation by Combining Binary Subcomponents
2:20 PM		Paper 25: Non-Intrusive Appliance Load Identification with the Ensemble of Classifiers
2:40 PM		Paper 26: A Fully Unsupervised Appliance Modelling Framework for NILM
3:00 PM		**Afternoon Coffee/Tea Break**
3:20 PM	Topic: **Algorithms, Part 2**	Paper 13: An Active Learning Framework for Non-Intrusive Load Monitoring
3:40 PM		Paper 3: Detecting IT and Lighting loads using Common Mode Conducted EMI Signals
4:00 PM		Paper 5: Greedy Deep Disaggregating Sparse Coding
4:20 PM		Topic Discussion for Parts 1 and 2
4:40 PM		**Closing & Best Paper Award, Workshop Officially Ends at 5:00pm**

GOLD SPONSOR

DNV·GL

SILVER SPONSORS

Itron

sense.

ECOTAGIOUS
Energy conservation. Worth spreading.

HOMEPULSE
SMART ENERGY SERVICES

bidgely

DATAPORT
PECAN STREET

HOSTS

SFU

BC Hydro
Power smart