# Stephen Makonin, PhD, PEng, smIEEE

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Citizenship: Canadian Website: <a href="http://www.sfu.ca/~smakonin/">http://www.sfu.ca/~smakonin/</a>

CompSust Lab: <a href="http://compsust.fas.sfu.ca">http://compsust.fas.sfu.ca</a>

### Education

2010-2014 Doctor of Philosophy

Simon Fraser University, School of Computing Science (Burnaby, Canada)

Thesis: Real-Time Embedded Low-Frequency Load Disaggregation

Advisor: Fred Popowich

2007 - 2009 Bachelor of Technology

British Columbia Institute of Technology

School of Computing and Academic Studies (Burnaby, Canada)

Major: Computer Systems with a Data Communications Specialization

1993 - 1996 Diploma in Computer Technology

Selkirk College (Castlegar, Canada)

2018 Certificate, Software Carpentry Instructor

Software Carpentry Foundation (Vancouver, BC)

2009 Certificate, Electronics Technician

George Brown College (Toronto, Canada)

### **Professional Affiliation**

2018 – now Professional Engineer (PEng)

Engineers and Geoscientists BC (EGBC)

a.k.a. Association of Professional Engineers and Geoscientists of BC (APEGBC)

2014 – now Member

Society for Industrial and Applied Mathematics (SIAM)

2013 – now Senior Member (smIEEE)

Institute of Electrical and Electronics Engineers (IEEE)

Student Member and Member since 2008.

2010 - 2016 Information Systems Professional (ISP)

Canadian Information Processing Society (CIPS)

## **Research Experience**

2019 – now Senior Software Engineer

Simon Fraser University, Big Data Hub (Burnaby, Canada)

2017 - now Adjunct Professor

Simon Fraser University, School of Engineering Science (Burnaby, Canada) PI of the Computational Sustainability Lab: <a href="http://compsust.fas.sfu.ca">http://compsust.fas.sfu.ca</a>

2018 Visiting Professor

Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi, India)

2016 - 2017 Postdoctoral Fellow

University of British Columbia, Electrical and Computer Engineering (Burnaby, Canada) Advisor: Z. Jane Wang

2014 - 2017 Postdoctoral Fellow & Sessional Instructor

Simon Fraser University, Engineering Science & Computing Science (Burnaby, Canada) 2015 – 2017 Advisor: Ivan V. Bajic (postdoc) 2014 – 2015 Advisors: Wolfgang Stuerzlinger (postdoc) & Anthony Dixon (instructor)

2008 – 2015 Research Associate

British Columbia Institute of Technology, Applied Research (Burnaby, Canada)

## **HQP Supervision**

TBD Senior Supervisor of Lior Bragilevsky — PhD Thesis (starting Fall 2020)

Simon Fraser University, School of Engineering Science (Burnaby, Canada) Thesis: tbd

2019 - now Senior Supervisor of Richard Jones — MASc Thesis (on going)

Simon Fraser University, School of Engineering Science (Burnaby, Canada) Awarded a Graduate Dean's Entrance Scholarship (GDES) and NSERC CGS-M Thesis: tbd

- 2018 now Senior Supervisor of Alejandro Rodriguez-Silva PhD Thesis (on going) Simon Fraser University, School of Engineering Science (Burnaby, Canada) Thesis: tbd
- 2018 now Co-Supervisor of Alon Harell MASc Thesis (on going)
  Simon Fraser University, School of Engineering Science (Burnaby, Canada)
  Awarded a NSERC CGS-M, Thesis: tbd
- 2017 now Senior Supervisor of Md. Zulfiquar Ali Bhotto Postdoctoral Fellow Simon Fraser University, School of Engineering Science (Burnaby, Canada) Research Areas: NILM, smart grid optimization
- 2014 2015 **Co-Supervisor of Bradley Ellert MSc Thesis (defended Aug 17, 2015)**Simon Fraser University, School of Computing Science (Burnaby, Canada)
  Thesis: Leveraging Submetered Electricity Loads to Disaggregate Household Water-Use

## **Visiting Scholars**

- 2019 David Murray PhD, University of Strathclyde, UK (2 months)
- 2019 Bundit Buddhahai PhD, KMUTT, Thailand (6 months)
- 2019, 2020 Christoph Klemenjak PhD, University of Klagenfurt, Austria (6 months)
  - 2018 Shikha Singh PhD, IIIT-Delhi, India (1/2 month)
- 2017 2018 Megha Gaur PhD, IIIT-Delhi, India (6 months)

### **External Examiner (Viva)**

2019 Georgia Elafoudi (PhD Electronic and Electrical Engineering)

University of Strathclyde, Glasgow, UK

Thesis: Meaningful Information Extraction from IoT Measurements using Signal Information Processing

### **Teaching Experience**

*Fall 2014,* Introduction to the Internet and the World Wide Web (CMPT 165)

Spring 2015 Simon Fraser University, School of Computing Science
Students each semester: in-class section 200 (90% ESL Mandarin), dist. ed. section 225
TAs/TMs: in-class section 3, dist. ed. section 3

### Grants & Funding (PI = Principal Investigator)

- 2020 **Co-PI** SSHRC Knowledge Synthesis Grant (\$50,000, I year) Title: Tackling the Carbon Footprint of Streaming Media
- 2019 **PI** NSERC Engage Grant (\$25,000, 6 months)

  Title: Inferring power grid transformer to meter association using inconsistent geospatial data
- 2019 **Investigator** European Commission Horizon2020 Grant (2 years)
  Title: SENSors and Intelligence in BuLt Environment (SENSIBLE) project
  [indirect moneys to allow for international grad student visits]
- 2019 PI NSERC Discovery Launch Supplement Award (\$12,500)
- 2018 **PI** NSERC Discovery Grant (\$140,000, 5 years) Title: Non-Intrusive Load Monitoring (NILM)
- 2016 **Postdoc** IC-IMPACTS NCE Project Grant (\$133,000, 2 years, 11.2% success rate)

  Title: Energy and Water Disaggregation for Non-Intrusive Load Monitoring in Buildings
  [I was a main author and organizer of grant but could not be co-PI due to funding rules]
- 2012, 14 **PhD Candidate** SFU GSS Professional Development Grant (2 at \$500 each)
  - 2013 **PI** BCIT School of Energy Research Seed Funding (\$10,000, 4 months)
    Title: Branch Circuit Ammeter and Data Logger for Smart Grid/Home Application

## **Publications** (see citation report at end of CV)

#### **BOOKS**

- Pacheco-Torgal, F., Rasmussen, E., Granqvist, C.-G., Ivanov, V., Kaklauskas, H. A., and **Makonin, S.**, editors (2016). *Start-Up Creation: The Smart Eco-Efficient Built Environment, First Edition*. Woodhead Publishing/Elsevier, ISBN: 978-0-08-100546-0.
  - Authored: Makonin, S. (2015) Chapter 18: App programming and its use in smart buildings.
- Bennett, D., **Makonin, S.**, Mayfield, V. W., Neustaedter, T., and Wrenn, M. R. (1996). *Visual C++ 5.0 Developer's Guide*. Sams Publishing, ISBN: 978-0-672-31031-7.

#### **JOURNAL ARTICLES (PEER REVIEWED)**

- Dinesh, C., **Makonin, S.**, and Bajic, I. V. (2020). Residential Power Forecasting Based on Affinity Aggregation Spectral Clustering. *IEEE Access*, [in-press].
- Dinesh, C., **Makonin, S.**, and Bajic, I. V. (2019). Residential Power Forecasting Using Load Identification and Graph Spectral Clustering. *IEEE Trans. on Circuits and Systems II: Express Briefs*, 66(11):1900–1904.
- Gaur, M., **Makonin, S.**, Bajic, I. V., and Majumdar, A. (2019). Performance evaluation of techniques for identifying abnormal energy consumption in buildings. *IEEE Access*, 7:62721–62733.
- **Makonin, S.** (2019). HUE: The Hourly Usage of Energy Dataset for Buildings in British Columbia. *Data in Brief*, 23(103744):1–4.
- **Makonin, S.**, Wang, Z. J., and Tumpach, C. (2018). RAE: The Rainforest Automation Energy Dataset for Smart Grid Meter Data Analysis. *Data*, 3(1):1-9.
- Bhotto, Md. Z. A., **Makonin, S.**, and Bajic, I. V. (2016). Load Disaggregation Based on Aided Linear Integer Programming. *IEEE Trans. on Circuits and Systems II: Express Briefs*, 64(7):792–796.
- **Makonin, S.**, Ellert, B., Bajic, I. V., and Popowich, F. (2016). Electricity, water, and natural gas consumption of a residential house in Canada from 2012 to 2014. *Scientific Data*, 3(160037):1–12.
- **Makonin, S.**, Popowich, F., Bajic, I. V., Gill, B., and Bartram, L. (2016). Exploiting HMM Sparsity to Perform Online Real-Time Nonintrusive Load Monitoring. *IEEE Trans. on Smart Grid*, 7(6):2575–2585.
- **Makonin, S.** and Popowich, F. (2015). Nonintrusive Load Monitoring (NILM) Performance Evaluation. *Energy Efficiency*, 8(4):809–814.
- **Makonin, S.**, Bartram, L., and Popowich, F. (2013). A Smarter Smart Home: Case Studies of Ambient Intelligence. *IEEE Pervasive Computing*, 12(1):58–66.
- **Makonin, S.** and Popowich, F. (2012). Home Occupancy Agent: Occupancy and Sleep Detection. *GSTF Journal on Computing*, 2(1):182–186.

#### CONFERENCE PROCEEDINGS (PEER REVIEWED)

- Jones, R., Rodriguez-Silva, A., and **Makonin, S.** (2020). Increasing the Accuracy and Speed of Universal Non-Intrusive Load Monitoring (UNILM) Using a Novel Real-Time Steady-State Block Filter. In *Proceedings* of the 11th Conference on Innovative Smart Grid Technologies (ISGT).
- Klemenjak, C., **Makonin, S.**, and Elmenreich, W. (2020). Towards Comparability in Non-Intrusive Load Monitoring: On Data and Performance Evaluation. In *Proceedings of the 11th Conference on Innovative Smart Grid Technologies (ISGT)*.

- Rodriguez-Silva, A., and **Makonin, S.** (2019). Universal Non-Intrusive Load Monitoring (UNILM) Using Filter Pipelines, Probabilistic Knapsack, and Labelled Partition Maps. In *Proceedings of the 11th IEEE PES Asia-Pacific Power and Energy Engineering Conference 2019 (APPEEC)*.
- Klemenjak, C., Reinhardt, A., Pereira, L., **Makonin, S.**, Bergés, M., and Elmenreich, W. (2019). Electricity Consumption Data Sets: Pitfalls and Opportunities. In *Proceedings of the 6th ACM International Conference on Systems for Energy-Efficient Built Environments, Cities, and Transportation (BuildSys*).
- Harell, A., **Makonin, S.**, and Bajic, I. V. (2019). WaveNILM: A Causal Neural Network for Power Disaggregation from the Complex Power Signal. In *Proceedings of the 44th International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*.
- Guzman, L., **Makonin, S.**, and Clapp, R. A. (2019). CarbonKit: Designing A Personal Carbon Tracking Platform. In *Proceedings of SocialSense '19: Fourth International Workshop on Social Sensing*.
- Dinesh, C., **Makonin, S.**, and Bajic, I. V. (2017). Incorporating Time-Of-Day Usage Patterns Into Non-Intrusive Load Monitoring. In *Proceedings of the 5th IEEE Global Conference on Signal and Information Processing (GlobalSIP*).
- **Makonin, S.** (2016). Investigating the Switch Continuity Principle Assumed in Non-Intrusive Load Monitoring (NILM). In *Proceedings of the 29th Annual IEEE Canadian Conference on Electrical and Computer Engineering (CCECE)*.
- **Makonin, S.**, McVeigh, D., Stuerzlinger, W., Tran, K., and Popowich, F. (2016). Mixed-Initiative for Big Data: The Intersection of Human + Visual Analytics + Prediction. In *Proceedings of the 49th Hawaii International Conference on System Sciences (HICSS)*, pp. 1427-1436.
- Ellert, B., **Makonin, S.**, and Popowich, F. (2015). Appliance Water Disaggregation via Non-Intrusive Load Monitoring (NILM). In *Proceedings of the EAI International Conference on Big Data and Analytics for Smart Cities (BigDASC*).
- Wallace, J., Richardson, K., Gill, B., and **Makonin, S.** (2015). Cognitive Radio Technology: System Evolution. In *Proceedings of the 4th International Conference On Wireless Networks and Embedded Systems* (WECON).
- **Makonin, S.**, Bajic, I. V., and Popowich, F. (2014). Efficient Sparse Matrix Processing for Nonintrusive Load Monitoring (NILM). In *Proceedings of the 2nd International Workshop on Non- Intrusive Load Monitoring*.
- **Makonin, S.**, Guzman Flores, L., Gill, R., Clapp, R. A., Bartram, L., and Gill, B. (2014). A Consumer Bill of Rights for Energy Conservation. In *Proceedings of the 2014 IEEE Canada International Humanitarian Technology Conference (IHTC)*.
- Filsoof, R., Bodine, A., Gill, B., **Makonin, S.**, and Nicholson, R. (2014). Transmitting Patient Vitals Over a Reliable ZigBee Mesh Network. In *Proceedings of the 2014 IEEE Canada International Humanitarian Technology Conference (IHTC)*.
- **Makonin, S.**, Sung, W., Dela Cruz, R., Yarrow, B., Gill, B., Popowich, F., and Bajic, I. V. (2013). Inspiring Energy Conservation Through Open Source Metering Hardware and Embedded Real-Time Load Disaggregation. In *Proceedings of the 5th IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC*).
- **Makonin, S.**, Popowich, F., Bartram, L., Gill, B., and Bajic, I. V. (2013). AMPds: A Public Dataset for Load Disaggregation and Eco-Feedback Research. In *Proceedings of the 2013 IEEE Electrical Power and Energy Conference (EPEC)*.

- **Makonin, S.**, Popowich, F., Moon, T., and Gill, B. (2013). Inspiring Energy Conservation Through Open Source Power Monitoring and In-Home Display. In *Proceedings of the 2013 IEEE Power and Energy Society General Meeting*.
- **Makonin, S.**, Popowich, F., and Gill, B. (2013). The Cognitive Power Meter: Looking Beyond the Smart Meter. In *Proceedings of the 2013 26th Annual IEEE Canadian Conference on Electrical and Computer Engineering (CCECE)*.
- **Makonin, S.**, Kashani, M., and Bartram, L. (2012). The Affect of Lifestyle Factors on Eco-Visualization Design. In *Proceedings of Computer Graphics International (CGI)*.
- **Makonin, S.**, Pasquier, P., and Bartram, L. (2011). Elements of Consumption: An abstract visualization of household consumption. In *Smart Graphics*, LNCS, 6815:194–198. Springer Berlin Heidelberg.
- **Makonin, S.** and Popowich, F. (2011). An intelligent agent for determining home occupancy using power monitors and light sensors. In *Toward Useful Services for Elderly and People with Disabilities*, LNCS, 6719:236–240. Springer Berlin Heidelberg.

#### **POSTER & DEMO SESSIONS**

Harell, A., **Makonin, S.**, and Bajic, I. V. (2018). A Recurrent Neural Network for Multisensory Non-Intrusive Load Monitoring on a Raspberry Pi. In *Proceedings of the EEE 20th International Workshop on Multimedia Signal Processing (MMSP)*.

#### **TECHNICAL REPORTS**

**Makonin, S.** (2012). *Approaches to Non-Intrusive Load Monitoring (NILM) in the Home*. PhD Depth Report, Simon Fraser University, School of Computing Science.

### **Service To Profession**

#### **GENERAL CHAIR & ORGANIZER**

- Advanced Signal Processing for Non-intrusive Load Monitoring Special Session
   44th International Conference on Acoustics, Speech, and Signal Processing (ICASSP)
   Brighton, UK. May 12
- *2018* 4th International Workshop on Non-Intrusive Load Monitoring (NILM) Auston, TX, USA. March 7 8
- 2017 The Plenty of Fish (POF) 24hr Hackathon Burnaby, Canada. October 13 – 14, 24-hours
- 2016 3rd International Workshop on Non-Intrusive Load Monitoring (NILM) Vancouver, Canada. May 14 15
- 2015 IEEE Vancouver Windows 10 Hackathon Burnaby, Canada. May 16 – 17, 28-hours
- 2014 IEEE Vancouver Kinect and Structure Sensor Hackathon Burnaby, Canada. November 8 – 9, 28-hours

#### **JOURNAL EDITORSHIP**

2019 – now Editorial Board Member, Scientific Data, Nature

#### **WEBSITE & SOCIAL MEDIA CHAIR**

- 2016 14th IEEE International NEW Circuits And Systems (NEWCAS) Conference Vancouver, Canada. June 26 29
- 2016 29th Annual IEEE Canadian Conf. on Electrical and Computer Engineering (CCECE) Vancouver, Canada. May 15 18
- 2014 IEEE 15th Int. Conf. on High Performance Switching and Routing (HPSR) Vancouver, Canada. July 1 4

### TECHNICAL PROGRAM COMMITTEE (TPC) MEMBER

- 2020 eSim 2020, International Building Performance Simulation Association (IBPSA-Canada)
- 2019 11th IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC)
- 2017 5th IFIP Conference on Sustainable Internet and ICT for Sustainability (SustainIT)
- 2015 2017 IEEE Workshop on Pervasive Energy Services (PerEnergy)
  - 2016 Int. Workshop on Computational Energy Management in Smart Grids (CEMiSG)
  - 2015 Int. Conf. on Big Data and Analytics for Smart Cities (BigDASC)
- 2011 2015 Int. Conf. on Ubiquitous Computing and Ambient Intelligence (UCAml)
  - 2012 IEEE Int. Conf. on Power and Energy (PECON)

#### **MISCELLANEOUS ACTIVITIES**

- 2014, 17, 19 External Grant Reviewer, Mitacs Accelerate Grant Proposal, Canada
  - 2018 External Grant Reviewer, EPSRC Grant Proposal, UK
- 2011, 13, 15, 17 External Paper Reviewer, Canadian Conference on Artificial Intelligence (Al)

## Keynotes, Invited Talks & News/Media Interviews

- News Talk Show Interview/Discussion on CarbonKit and Personal Carbon Tracking The Danielle Smith Show (Calgary, AB, Canada), 22 min, October 2.
- 2018 Data, Datasets, and Data Engineering
  The 5th EU Nonintrusive Load Monitoring Workshop (Duisburg, Germany), October 1.
- NILM Real-World Testing: An Emulator for NILM and Smart Home Research 4th International Workshop on Non-Intrusive Load Monitoring (Austin, USA), March 8.
- The Expectations of Non-Intrusive Load Monitoring (NILM)
  The International Conference on Application of Demand-Side Management (DSM) and Data Driven Technology in Energy Saving (Taipei, Taiwan), November 22.
- 2017 NILM Real-World Testing: The Case for an Emulator
  The 4th EU Nonintrusive Load Monitoring Workshop (London, UK), November 7.
- 2015 From Socioeconomic Concerns to Standardizing Accuracy to Water NILM The 2nd EU Nonintrusive Load Monitoring Workshop (London, UK), July 8.

## **Scholarships & Awards**

- 2017 IEEE Signal Processing Society Appreciation Certificate Leadership & Support
- 2015 IEEE Vancouver Section Leadership and Contribution Award Initiative
- 2014 SFU Faculty of Applied Science (FAS) Graduate Fellowship (PhD)
- 2012, 14 Ebco/Eppich Graduate Scholarships in Intelligent Systems
  - 2013 SFU Travel & Minor Research Award (2 awards won that year)
  - 2013 SFU President's PhD Scholarship
- 2012, 13 SFU Graduate Fellowship (PhD)
  - 2010 BCIT Vancouver 2010 Olympic Winter Games Legacy Fund Scholarship

## **Industry Experience (Software Engineering)**

- 2014 now Co-Founder & Senior Research Scientist SweetLightning (Calgary, Canada)
- 1996 now Senior Software Developer Consultant

Oponix Systems Inc. formerly Makonin Consulting Corp. (1996-2010, Burnaby, Canada) Clients incl. Telus Mobility, Vancouver Costal Health, Sierra Wireless, Safeway Canada, and Quartech Systems. Recent clients incl. Green Running (UK), and Itron (USA)

- 2017 2018 Senior Software Engineer Knowledge Network (Burnaby, Canada)
- 2006 2008 Co-Founder & CTO Vvvroom.com (Burnaby, Canada)
  - 2006 **Director of Software Development, Vancouver** AbsolutePoker (Vancouver, Canada) Reporting staff: 3 Software Developers, 1 QA Manager, 3 QA Testers Department budget: \$600,000/year

### **Volunteer Work**

- 2017 now Yearly Scholarship for Aboriginal Undergraduates (Donor of), Simon Fraser University
- 2016 now Executive Member, IEEE Vancouver Section

Vice-Chair, Signal Processing Chapter: 2016 – now

Chair, IEEE Vancouver Joint Computing Chapter: 2014 - 2016

Membership Development Chair, IEEE Vancouver Section: 2012 - 2014

- 2018 2020 Director of Communication, Burnaby Mountain Mantas Swim Club
- 2012 2019 Executive Member, Westside Montessori Academy PAC

Co-Chair: 2014/15 school year

Treasurer: 2014/15, 2015/16, 2016/17, and 2017/18 school years

Executive-at-Large: 2012/13 and 2018/19 school years

## **Citation Counts Report**

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Report generated on: 2020-05-25 08:37:24.184111

Citations = 1,037 h-index = 15 i10-index = 23

ilo-index = 15 i23			
Paper Title		Citations	Journal IF
AMPds: A public dataset for load disaggregation and eco-feeds	oack re	234	
Exploiting HMM Sparsity to Perform Online Real-Time Nonintrus	sive Lo	157	10.486
Nonintrusive load monitoring (NILM) performance evaluation		99	
Electricity, water, and natural gas consumption of a resident	tial ho		
A Smarter Smart Home: Case Studies of Ambient Intelligence		59	
Load Disaggregation Based on Aided Linear Integer Programming	J	34	
The cognitive power meter: Looking beyond the smart meter		33	
Visual C++ 5.0 Developer's Guide		32	
Real-time embedded low-frequency load disaggregation		28	
Efficient Sparse Matrix Processing for Nonintrusive Load Moni		27	
RAE: The Rainforest Automation Energy Dataset for Smart Grid	Meter	22	tbd
The Affect of Lifestyle Factors on Eco-Visualization Design		20	
Investigating the Switch Continuity Principle Assumed in Non-		19	
Mixed-Initiative for Big Data: The Intersection of Human + Visual A		17	
Elements of consumption: an abstract visualization of household con		16	
WaveNILM: A Causal Neural Network for Power Disaggregation from the		14	
An intelligent agent for determining home occupancy using power mon		14	
A consumer bill of rights for energy conservation Approaches to Non-Intrusive Load Monitoring (NILM) in the Hom		13 13	
Inspiring energy conservation through open source metering hardware		13	
Appliance Water Disaggregation via Non-Intrusive Load Monitoring (N		12	
Inspiring energy conservation through open source power monitoring		11	
Home Occupancy Agent: Occupancy and Sleep Detection		11	tbd
Electricity consumption data sets: Pitfalls and opportunities		9	tbu
Incorporating Time-Of-Day Usage Patterns Into Non-Intrusive Load Mo		9	
Towards Comparability in Non-Intrusive Load Monitoring: On Data and			
Start-Up Creation: The Smart Eco-efficient Built Environment		6	
Cognitive Radio Technology: System Evolution		5	
Residential Power Forecasting Using Load Identification and O	Franh S	3	3.250
HUE: The Hourly Usage of Energy Dataset for Buildings in British Co		3	
Transmitting Patient Vitals Over a Reliable ZigBee Mesh Network		2	2.100
Increasing the Accuracy and Speed of Universal Non-Intrusive Load M		1	
A Recurrent Neural Network for Multisensory Non-Intrusive Loa			
Performance evaluation of techniques for identifying abnormal energ		0	
Peer-Reviewed Conferences:	26 papers	515	
Peer-Reviewed Journals:	10 papers	484	34.273
Books Co-authored/Co-edited:		38	
Grand Totals:	38 papers	1,037	34.273
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**Note:** Papers without a citation count are not listed above unless they are a journal paper.