

# Wahab Hamou-Lhadj

Associate Professor  
Department of Electrical and Computer  
Engineering  
Concordia University  
abdelw@ece.concordia.ca

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# The Mission of the Software Behaviour Analysis Research Lab

To investigate techniques and tools **to help software (and system) analysts understand and analyze the behaviour of complex software systems** with the primary goal of enhancing maintenance, security, and addressing performance problems

# Topics of interest

- Tracing, logging, and runtime monitoring
- Big data analytics of log and trace data
- Log management and engineering
- Cloud-based logging and tracing infrastructures
- System diagnosis and observability
- Dynamic analysis for program comprehension
- Model-driven software tracing and debugging
- Online system observation and surveillance
- Software healing and adaptation
- Visualization and classification of program behaviour

# Current Projects

- AHLS - Advanced Host-Level Surveillance
- D2K - From Data 2 Knowledge for Better System Maintenance
- OpenSim - An Open Architecture for Aircraft Simulation Integration and Monitoring Methods Using the HLA Standard
- AVIO 508 - Diagnostics for Real Time Distributed Multi-core Architecture in Avionics





Neda Ebrahimi (PhD)



Korosh K. Sabor (PhD)



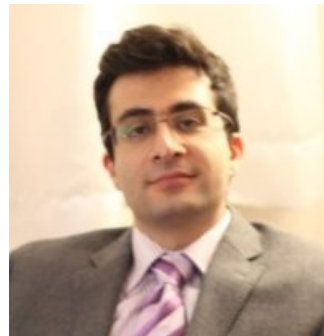
Mathieu Nayrolles (PhD)



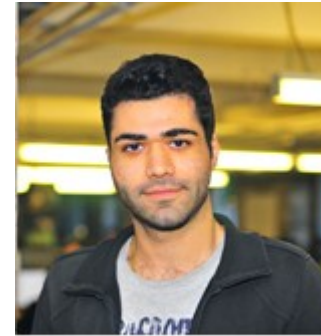
Ava Khanmohammadi  
(PhD)



Md Islam Shariful (PhD)



Mohammad R. Rejali  
(PhD)



Amir Gahroosi (RA)

# HQP



Sama Khosravifar (MSc.)



Abhishek Koyalkar (MEng.)