

Master thesis		Students	Promotors
Session : 1	Computer science for sustainability and for the environment		
Channel	Sustainability and Environment		
Captaine	mathieu.jadin@uclouvain.be		
	1 LoRa sensors for air quality monitoring in UCLouvain buildings	De Carvalho Borges Marcio Dillion Maxime Perdaens Olivier	Sadre Ramin
	2 The CO2 credit card	Guillaume Merlin Gevorgyan Edgar	Contino Francesco ; Limpens Gauthier ; Jeanmart Hervé
	3 Helping citizens assess and reduce the environmental impact of their emails in the cloud	Marini Mohamed Samir Beauvois Mélanie Dierckx Lucile	Riviere Etienne
	4 Suivi automatisé de la faune sauvage	Legast Magali	Nijssen Siegfried ; Bonaventure Olivier
	5 Rule-Based Learning for Energy Optimization	de la Cruz Mallada Jimmy	Legay Axel Marnik vanclooster
	6 Développement d'une application pour faciliter l'accès et le téléchargement de séries temporelles de données	Van Der Elst Jérôme	Nijssen Siegfried
	7 Determining Sustainability Scores from Data Online [RESERVED TOPIC]	Charlier Gilles Hick Simon	Bonaventure Olivier
	8 Suivi automatisé de la faune sauvage - insectes A	Beyraghi Vahid Thibaut Jonathan	Bonaventure Olivier
	9 Suivi automatisé de la faune sauvage - insectes B	Di Prinzio Florentin	Schaus Pierre
	10 Nonintrusive Autonomous Water Monitoring System and Water Consumption disaggregation	Legat Guillaume	De Vleeschouwer, Christophe
	11 Oil spill detection from satellite images using Convolutional Neural Networks		
Session : 2	Interfaces and interactions		
Channel	Interfaces and Interactions		
Captaine	victor.hamer@uclouvain.be		
	1 An On-line Interactive Atlas for Gesture-based Interaction	Linsmeau Clément	Vanderdonckt Jean
	2 Air+Touch Gesture Recognition: algorithms, software, and Experiment	Neuville Romain	Vanderdonckt Jean
	3 Development of Microservices for Automatic Screenshot Evaluation by Visual Metrics	Abdelouassaa Sanae	Vanderdonckt Jean
	4 Development of Microservices for Online Evaluation of Graphical User Interfaces	Reginster Guillaume	Vanderdonckt Jean
	5 Analysing cloud gaming	Vranckx Florian	Bonaventure Olivier
	6 Reinforcement learning based AI to play first-person video games	De Graeve Quentin	Schaus Pierre
	7 Deep Learning for 3D Gesture Recognition based on the Walabot radar	Vaneberck Damien Wala Gauthier	Vanderdonckt Jean
	Session : 2b - Computer science for society		
	1 Opérationnalisation d'une application web de gestion des exploitations maraîchères	de Moffarts Guillaume	Mens Kim
	2 Development of a database and web application for the analysis of rainfall data in Haiti	Duprez Florian Verbois Nicolas	Mens Kim ; Soares Frazao Sandra
	3 Signature électronique et archivage numérique	Mersch-Mersch Séverine Nicaise Noémie	Deville Yves
	4 Efficient, transparent Deep Representation Learning for the Two-Way Job Matching Problem	Maréchal Cyril	Delvenne Jean-Charles
	5 Multilabel classification of social events from textual features	Cayphas Nicolas Hachem Firas	Dupont Pierre
	6 Development of "citizen science" aspects in a web application for the management of drinking water distribut	Gradzielewski Vincent	Mens Kim ; Soares Frazao Sandra
Session : 3	Edge computing and smart environments		
Channel	Edge computing and smart environments		
Captaine	guillaume.rosinosky@uclouvain.be		
	1 User Interfaces for Edge Computing	Ortegat Guillaume	Riviere Etienne ; Vanderdonckt Jean
	2 Personal assistants as interfaces for social home care security	Goffinet Stanley Schmitz Donatien	Legay Axel ; Riviere Etienne
	3 IoT / SmartHome Activity Detection and Identification (Networking, Machine Learning)	Vivian Martin	Sadre Ramin
	4 Louvain-la-Neuve: a Smart City	De Keersmaecker François van de Walle Nicolas	Sadre Ramin ; Deville Yves
	5 An AI for an Autonomous shuttle in a logistic warehouse	Damhaut Florian Pletinckx Cyril	Schaus Pierre
	6 Doing large-scale computations on an Internet of Things network	Popeler Antoine	Van Roy Peter
	7 Sensor fusion on an Internet of Things network	Kalbusch Sébastien Verpoten Vincent	Van Roy Peter
	8 Design and Implementation of Insertion Sequence Variables in Mini-CP: applications to scheduling and vehicle	Delmelle Quentin	Schaus Pierre
	9 (duplicate)Tracking Objects with several cameras using Deep Learning on Raspberry Pi	Ghaffar Aqsa	Macq Benoît
	10 Concurrent Matrix and Vector Functions for Erlang [GRISP project with Stritzinger]	Losseau Tanguy	Van Roy Peter
	11 Flooding in the IS-IS protocol"	Stoz Arnaud	Bonaventure Olivier
Session : 4	Computer science for healthcare		
Channel	Healthcare and Education		
Captaine	charles-henry.bertrand@uclouvain.be		

	Master thesis	Students	Promotors
	1 Real time tumor tracking using particle filters and application to the optimisation of dose delivery in proton therapy 2 AI for analyzing open-data related to the 2020 coronavirus pandemic 3 Visualization platform for mining large collections of gene expression data 4 Denoising Monte Carlo doses for fast and accurate proton therapy treatment planning 5 High performance computing for simulation of proton therapy treatments. 6 Deep learning for cell and bacterial colony counting in vaccine development 7 Deep learning for cell and bacterial colony counting in vaccine development	Little Nathan Delecluse Augustin Gérard Margaux Giot Emile Semerikova Liliya Froment François Bouterfa Younes de Biolley Antoine	Macq Benoît Nijssen Siegfried ; Schaus Pierre Dupont Pierre Lee John ; Sterpin Edmond Riviere Etienne ; Lee John Lee John Lee John
	Session : 4b - Computer science for education		
	1 Mining code for misconceptions of students 2 Artificial Intelligence open solution for Virtual Proctoring 3 Portail Open Source pour OER (Open Educational Ressources) 4 Adding Types in Python Programming Courses	Schellekens François Bellon Guillaume Jamar Noémie Detry Damien	Mens Kim Deville Yves Deville Yves Charles Pecheur
Session : 5	Communication: better, faster, safer		
Channel	Communication and Blockchains Security		
Captaine	quentin.deconinck@uclouvain.be		
	1 Protocol stack for 802.15.4 based personal network (6LoWPAN) [GRISP project with Stritzinger] 2 Toward verification of QUIC extensions 3 Efficient transport of video in the home of tomorrow 4 Improving eBPF verifiers 5 Capacity-achieving packet forwarding through adaptive network coding 6 Improving Multicast forwarding 7 Adaptive large-scale overlays using Gossip-based construction 8 New applications above QUIC	Bojabza Soukéina Crochet Christophe Sambon Jean-François De Vogeleer Louis Rybowski Nicolas Navarre Louis Shafiei Sina Bhojane Shraddha van Stratum Arthur	Van Roy Peter Legay Axel ; Bonaventure Olivier Macq Benoît ; Legat Jean-Didier Legay Axel ; Bonaventure Olivier Bonaventure Olivier Bonaventure Olivier Riviere Etienne Bonaventure Olivier
	Session : 5b : Blockchains and security		
	1 Graph analysis for financial transactions in blockchain-based payment systems 2 Long-term archives with blockchains 3 Model Checking of Smart Contracts 4 Let's visualize malwares!	Clement Maxime Moueddene Alexandre Roose Pierre-Rodéric Halbardier Alexandre Meerts Martin Michel Benoît	Riviere Etienne ; Schaus Pierre Pereira Olivier ; Deville Yves Legay Axel Legay Axel
Session : 6	Make software engineering great again		
Channel	Software engineering great again		
Captaine	raziel.carvajal-gomez@uclouvain.be		
	1 Context-oriented testing 2 Context-specific composition of features in context-oriented programming 3 AutoML: Automated Machine Learning 4 Deep Learning for Software Engineering 5 Divergence visualization in Lasp program execution 6 A new syntax for Oz that supports advanced programming idioms (part 2) 7 Implémentation de la fonction ode45 dans python 8 Interoperable protocol plugins 9 Can Data Mining Discover Software Changes? 10 Using Python to Mine for Patterns in Software	Martou Pierre Martin Pierre Carvalho Alisson Mulders Gildas Creupelandt Grégory Vandenbussche Martin De Clercq Louis Gobeaux Alexandre Hauspie Quentin Quinet Loïc	Mens Kim Mens Kim Nijssen Siegfried Nijssen Siegfried Van Roy Peter Van Roy Peter Legat Vincent Bonaventure Olivier Mens Kim ; Nijssen Siegfried Mens Kim ; Nijssen Siegfried
Session : 7	Foundations and applications of machine learning		
Channel	Machine Learning		
Captaine	alexander.gerniers@uclouvain.be		
	1 Investigating deep neural networks learning dynamics and generalization properties 2 Pattern Visualisation in Heat Maps 3 Deep feature selection 4 Augmented data in machine learning 5 Software development for interactive visualization of high-dimensional data 6 FHE and machine learning 7 Data journalism and machine learning security 8 JPEG-XS image compression for Deep Learning of Convolutional Neural Networks 9 Optimization of the software infrastructure for the storage and analysis of mass spectrometry data (reserved) 10 Automatic tuning and interactive visualisation of clusters of single cell expression data 11 FPGA-based Accelerator for Deep Learning 12 Machine learning for IoT with GRISP and Achlys	Peiffer Gilles Van Vracem Gauthier Ayouaz Rayan Reniers Thomas Lambert Pierre Brabant Matthieu Bogaert Jérémie Masy Maxime Maes Kilian Piron Henri Vlaeminck Jean-Martin Moya Rodríguez Pablo Bosco	De Vleeschouwer Christophe Nijssen Siegfried Dupont Pierre Lee John ; Verleysen Michel Lee John ; Verleysen Michel Pereira Olivier Standaert François-Xavier Macq Benoît Dupont Pierre Dupont Pierre Legat Jean-Didier ; Christophe De Vleeschouwer Van Roy Peter