

Måndag 14/5

Sal E32

Tid Händelse

- 12.00 Posters anslås
Postergenomläsning
- 12.30 Redovisningar startar

| | Institution / Avdelning | Namn | Titel | Handledare |
|-------|----------------------------|---|---|--------------------|
| 12.30 | Datalogi | Mahdi Khosravi Ali Yassiry | Virtualized Testing of Autonomous Vehicle Platoons in Unity | Karl Meinke |
| 13.00 | Datalogi | Tobias Estreen Sofia Nord | Visualization of Platooning in Unity | Karl Meinke |
| 13.30 | Datalogi | Jonas Eriksson Erik Mårtensson | A cubic spiral controller for lateral maneuver of platooning applications | Karl Meinke |
| 14.00 | Datalogi | Vincent Janvid | A* pathfinding Approach for the Geometry Friends Game | Iolanda Leite |
| 14.30 | Datalogi | Anton Bjöörn Lukas Ugglä | Answering Game Rulebook Enquiries Through Natural Language Processing | Iolanda Leite |
| 15.00 | PAUS | | | |
| 15.30 | Datalogi | Svante Rollenhagen | Classification of social gestures or affective states | Iolanda Leite |
| 16.00 | Datalogi | Beata Rystedt Mia Zdybek | Conversational agent as kitchen assistant | Iolanda Leite |
| 16.30 | Datalogi | Anders Ahlström Kjerrgren Max Larsson | Symmetry breaking in biological neuronal networks due to neuronal heterogeneity and diversity | Arvind Kumar |
| 17.00 | Datalogi | Martin Ståhl | Extraction of recurring behavioral motifs from video recordings of natural behavior | Arvind Kumar |
| 17.30 | Datalogi | Leo Enge Felix Liu | Crowd Simulation Using Flow Tiles | Christopher Peters |

Måndag 14/5

Sal E33

Tid Händelse

- 12.00 Posters anslås
Postergenomläsning
12.30 Redovisningar startar

| Institution / Avdelning | Namn | Titel | Handledare |
|-----------------------------------|--|--|------------------------------------|
| 12.30 Datalogi | Tai Luong Phu Anton Zubayer | Simulate chaos engineering of Internet-scale software in the NS3 simulator | Martin Monperrus |
| 13.00 Datalogi | Alexander Hesseborn Mårten Vuorinen | Preventing algorithmic DOS attacks with blackbox randomization | Martin Monperrus |
| 13.30 Datalogi | Aram Eskandari Benjamin Tellström | Preventing algorithmic DOS attacks with blackbox randomization | Martin Monperrus |
| 14.00 Elektro och systemteknik | Karla Rehn Lovisa Colérus (CELTE) | Automatic Sleep Scoring Using Keras | Joakim Jaldén |
| 14.30 Elektro och systemteknik | Gabriel Bengtsson Jesper Larsson | Source Localization Using Inverse Diffusion Solved With Convex Optimization | Joakim Jaldén |
| 15.00 | PAUS | | |
| 15.30 Optim.lära o systemteori | Klas Erninger Lucas Pettersson | Sensor Network Localization with errors | Fei Wang |
| 16.00 Optim.lära o systemteori | Oskar Ek Erik Hagerud | Optimization of evacuation planning using crowd control dynamics via machine learning | Xiaoming Hu |
| 16.30 Optim.lära o systemteori | Sebastian Sandström | Optimal motion control of a mobile manipulator by learning | Xiaoming Hu m.fl. |
| 17.00 Optim.lära o systemteori | Tianfang Zhang | Direct optimization of dose-volume histogram metrics in intensity- modulated radiation therapy treatment planning | Anders Forsgren Rasmus Bokrantz |
| 17.30 Optim.lära o systemteori | André Gerbaulet Emil Gnem | Optimizing call center scheduling | Per Enqvist |

Måndag 14/5

Sal E34

| Tid | Händelse |
|-------|--------------------------------------|
| 12.00 | Posters anslås Postergenomläsning |
| 12.30 | Redovisningar startar |

| | Institution / Avdelning | Namn | Titel | Handledare |
|-------|----------------------------|---|---|---------------------|
| 12.30 | Matematik | Jakob Huber Viktor Nilsson | Cyclic and Simplicial Sets in Algebraic Topology | Tilman Bauer |
| 13.00 | Matematik | Sven Sandfeldt | The Discrete Shrödinger Equation with Almost Periodic Tangens Potential | Kristian Bjerklöv |
| 13.30 | Matematik | Ivar Eriksson Lukas Gustafsson | On the Distribution of Sums of two Squares | Pär Kurlberg |
| 14.00 | Matematik | Erik Murray | The Riemann Hypothesis | Pär Kurlberg |
| 14.30 | Matematik | Gustav Brage Erik Sönnerlind Joel Wiklund | Braiding non-abelian anyons with representations in Clifford algebra | Douglas Lundholm |
| 15.00 | PAUS | | | |
| 15.30 | Matematik | Nancy Wang | Fractal sets: dynamical, dimensional and topological properties | Danijela Damjanovic |
| 16.00 | Matematik | Hadid Rehman | Mathematical Dimensions | John Andersson |
| 16.30 | Matematik | Adam Danieli | On the Hilbert transform acting automorphically on the space of Henstock-Kurzweil-integrable functions | John Andersson |
| 17.00 | Matematik | Jakob Sundblad | Blaschke produkter och deras nollställen | Håkan Hedenmalm |
| 17.30 | Ljud och vibrationer | Sarah Tovatt | Design av ljuddämpare för centrifugalfläkt | Mats Åbom |

Måndag 14/5

Sal E35

Tid Händelse

- 12.00 Posters anslås
Postergenomläsning
12.30 Redovisningar startar

| | Institution / Avdelning | Namn | Titel | Handledare |
|-------|------------------------------------|---|---|---|
| 12.30 | Matematisk statistik | Oskar Alin (CINEK) John Andersson | Analyzing factors contributing to the success of a Dota 2 team | Tatjana Pavlenko |
| 13.00 | Matematisk statistik | Sigge Ahlqvist Lukas Grannas (CINEK) | Optimizing monetary policy in a price-stable cryptocurrency | Johan Karlsson |
| 13.30 | Matematisk statistik | Alexander Edgren Philip Thomsson | Om Dow Jones index påverkas av väderförhållanden i New York | Jörgen Sävėsöderbergh |
| 14.00 | Matematisk statistik | Paul Wall André Westerberg | En statistisk undersökning av hur olika faktorer påverkar flyttningsbeteenden i Sveriges olika regioner | Daniel Berglund |
| 14.30 | Matematisk statistik | Amelia Lindroth Henriksson Simon Koller (CFATE) | Logistic Regression Analysis of Patent Approval Rate in Sweden | Daniel Berglund |
| 15.00 | PAUS | | | |
| 15.30 | Matematisk statistik | Love Wikland Theodor Ohlsson (CINEK) | A linear regression model of S&P 500 stock prices before and after the financial crisis | Anja Janssen |
| 16.00 | Numeriska metoder | Torbjörn Sjöberg | Computers, math and frequencies - Automated music analysis | Joar Bagge Aku Kammonen Anna-Karin Tornberg |
| 16.30 | Numeriska metoder | Nils Lindell Elin Tegfalk | Musikens matematik - analys av musik med hjälp av numeriska metoder och fouriertransformer | Joar Bagge Aku Kammonen Anna-Karin Tornberg |
| 17.00 | Fysik | Yani Shen Tommy Wallin | Simulations and Analysis of Quantum Annealing | Jack Lidmar |
| 17.30 | Fysik | Hanna Linn Martin Sjöborg | Simulating a Quantum Computer | Jack Lidmar |

Tisdag 15/5

Sal E32

| Tid | Händelse |
|------|--------------------------------------|
| 8.00 | Posters anslås Postergenomläsning |
| 8.30 | Redovisningar startar |

| | Institution / Avdelning | Namn | Titel | Handledare |
|-------|----------------------------|--|---|--------------|
| 8.30 | Datalogi | August Jacobsson Helmer Nylén | Investigation of a Knowledge-Based Subset Construction for Multi-Player Games of Imperfect I | Dilian Gurov |
| 9.00 | Datalogi | Alfred Zhang | Synthesis of Uniform Strategies for Multi-Player Games of Imperfect Information | Dilian Gurov |
| 9.30 | PAUS | | | |
| 10.00 | Datalogi | Vilhelm Burevik Sandberg | Predicting The Stock Market With Financial Time Series Using Hybrid Models - A Comparative Analysis | Pawel Herman |
| 10.30 | Datalogi | Patrik Amethier Hugo Haggren | Data driven predictions of outcome for a treatment against anxiety- disorder | Pawel Herman |
| 11.00 | Datalogi | Tim Cedervall Henrik Elofsson | The statistical influence of reducing image size for diagnosing Alzheimer's Disease with MRI | Pawel Herman |
| 11.30 | PAUS | | | |
| 12.30 | Datalogi | Leo Lindén | A comparison of attractor neural networks using temporally symmetric and antisymmetric synaptic rules | Pawel Herman |
| 13.00 | Datalogi | Leo Bergman Anton Karlsson | Stability and Scalability in memory attractor networks | Pawel Herman |
| 13.30 | Datalogi | Gustav Edholm Xuechen Zuo | A comparison between a conventional LSTM and a grid LSTM applied on speech recognition | Pawel Herman |
| 14.00 | Datalogi | Walid Abdul Jalil Kevin Dalla Torre | Machine learning methods with missing data - A study building on cluster-based oversampling | Pawel Herman |
| 14.30 | Datalogi | Felix Adelsbo | Exploration and Exploitation in Reinforcement Learning | Pawel Herman |

Tisdag 15/5

Sal E33

| Tid | Händelse |
|------|--------------------------------------|
| 8.00 | Posters anslås Postergenomläsning |
| 8.30 | Redovisningar startar |

| | Institution / Avdelning | Namn | Titel | Handledare |
|------|-----------------------------|-------------------------------|---|------------------------------|
| | | Louise Abrahamsson | | |
| 8.30 | Elektro och systemteknik | Kwetczer Jakob Stigenberg | Mobile Network Traffic Prediction | Ming Xiao Jin Huang |
| 9.00 | Elektro och systemteknik | Marta Jablecka Hanna Kerek | A Study of Reinforcement Learning in Multi-Agent Systems | Alexandre Proutiere m.fl. |

9.30 PAUS

| | | | | |
|-------|-----------------------------|---------------------------------------|--|--|
| 10.00 | Elektro och systemteknik | Jonas Nylund Oscar Örnberg | Deep Reinforcement Learning for Games | Alexandre Proutiere Vahan Petrosyan |
| 10.30 | Elektro och systemteknik | Jahangir Jazayeri Marcus Lindström | Deep reinforcement learning in distributed optimization | Alexandre Proutiere m.fl. |
| 11.00 | Elektro och systemteknik | Gustav Gybäck Fredrik Röstlund | Real-time system control with deep reinforcement learning | Alexandre Proutiere |

11.30 PAUS

| | | | | |
|-------|-----------------------------|---------------------------------|---|-------------------|
| 12.30 | Elektro och systemteknik | Mustafa Adnan Mikael Kvist | High level motion planning for a robot | Sofie Andersson |
| 13.00 | Elektro och systemteknik | Gustav Ekman | Inverse portfolio selection | Cristian R. Rojas |
| 13.30 | Elektro och systemteknik | Gustav Norén Emanuel Ravemyr | Vibility of Image Classification with Introduction of Semi-Transparent Barriers | Saikat Chatterjee |
| 14.00 | Elektro och systemteknik | John Friberg Filip Klaesson | Autonomous overtaking | Yulong Gao |
| 14.30 | Elektro och systemteknik | Philip Broms | Self-organizing Buses | Lars Lindemann |

Tisdag 15/5

Sal E34

| Tid | Händelse |
|------|--------------------------------------|
| 8.00 | Posters anslås Postergenomläsning |
| 8.30 | Redovisningar startar |

| | Institution / Avdelning | Namn | Titel | Handledare |
|------|----------------------------|-------------------|---|--------------------|
| 8.30 | Fysik | Pooyan Missaghian | Attenuation of seismic waves | Anatoly Belonoshko |
| 9.00 | Fysik | Agnes Watrang | Hofstadter's butterfly, Theory and experiment | Mats Wallin |

9.30 PAUS

| | | | | |
|-------|-------|--------------------------------|--|----------------|
| 10.00 | Fysik | Isak Källman Jonas Lindberg | Numerical Analysis and Quantum Simulation of Hofstadter's Butterfly | Mats Wallin |
| 10.30 | Fysik | Jonatan Gisslén | Simulation of active Brownian motion in complex 2D environments som arbetstitel | Mats Wallin |
| 11.00 | Fysik | Thomas Agrenius Gustafsson | En kvantkemisk studie av elektronisk cirkulär dikroism hos oligopeptider av alanin | Patrick Norman |

11.30 PAUS

| | | | | |
|-------|-------|---|---|---------------------------------------|
| 12.30 | Fysik | Fredrik Hülphers | Identification of ultra high energy cosmic rays using convolutional neural networks | Christer Fuglesang Francesca Capel |
| 13.00 | Fysik | Gustav Hedengren Oscar Larsson | Electrostatic Ion Thrusters for Space Debris Removal | Christer Fuglesang |
| 13.30 | Fysik | Julia Ericson David Evholt Rutger Fuglesang | Detection of lung cancer with computed tomography | Mats Danielsson |
| 14.00 | Fysik | Simon Ek Felix Stern | Searching for Pulsed Emission in SN 1987A in Hard X-rays | Josefin Larsson |
| 14.30 | Fysik | Axel Edholm Max Oliveberg | A comparative study of the Casimir effect | Tommy Ohlsson |

Tisdag 15/5

Sal E35

Händelse

- 8.00 Posters anslås
Postergenomläsning
8.30 Redovisningar startar

Institution / Avdelning

Namn

Titel

Handledare

8.30 Tillämpad fysik Mikael Schelin
Neuromorphic Computing with a
Network of Non-linear Oscillators
Simone Borlenghi

9.00 Tillämpad fysik Anton Möller
Optical forces from dielectric
waveguides on polarized particles
Katia Gallo

9.30 PAUS

10.00 Tillämpad fysik Patric Elf
Photophysics of blood on a
crimescene
Ying Fu

10.30 Tillämpad fysik Christin Friberg
Analys av Konformationella
Ensembler med hjälp av
Maskininlärning
Lucie Delemotte

11.00 Tillämpad fysik Selim Scharmer
Fabrication of micropillars with
embedded GaAs/AlGaAs epitaxial
quantum dots
Klaus Jöns
Thomas Lettner

11.30 PAUS

12.30 Tillämpad fysik Ebba Ahlgren Cederlöf
Hilda Molin
High-resolution photoluminescence
spectroscopy of quantum dots
Klaus Jöns
Lucas Schweickert

13.00 Tillämpad fysik Hanna Lindahl
Mikael Lyth
The effect of reducing CuO nanowires
to Cu₂O
Stephan Steinhauer

13.30 Tillämpad fysik Peter Harris
Mätning av nonvibrationer med
Moiré metoden för gitter på Talbot
längds avstånd
Ulrich Vogt

14.00 Tillämpad fysik Simon Szönyi
Bygg en svävande glob
Marcin Swillo

14.30 Tillämpad fysik Joakim Dahl
Oscar Zetterkvist
Young's dubbelspalt experiment
Gunnar Björk