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Optimal Control with terminal state constraints Formulation: properties ~~Yann LeCun @EPFL - "Self-supervised learning: could machines learn like humans?"~~ IMA Workshop: Optimal Control, Optimal Transport, and Data Science ~~IMA Workshop: Optimal Control, Optimal Transport, and Data Science~~ Model Predictive Control ~~IMA Workshop: Optimal Control, Optimal Transport, and Data Science~~ Optimal control in biology and engineering Luus Optimal Control Problem A General Framework for Optimal Data-Driven Optimization Qianxiao Li | A mean-field optimal control formulation of deep learning ~~Optimal control~~ The Great AI Debate - NIPS2017 - Yann LeCun ~~The brain-changing benefits of exercise | Wendy Suzuki~~ Fundamentals of frequency combs: What they are and how they work Yann LeCun - The Next Step Towards Artificial Intelligence Understanding Model Predictive Control, Part 1: Why Use MPC? Defining the Digital Humanities Model Predictive Control System | Neural Network | MATLAB Helper ~~Heroes of Deep Learning: Andrew Ng interviews Yann LeCun~~ Understanding Model Predictive Control, Part 6: How to Design an MPC Controller with Simulink
Understanding Model Predictive Control, Part 7: Adaptive MPC Design with Simulink Benjamin Recht: Optimization Perspectives on Learning to Control (ICML 2018 tutorial) OWOS: Daniel Kuhn - "A General Framework for Optimal Data-Driven Optimization" ~~Sum of Squares: An Optimal Algorithm? (ft. Boaz Barak)~~ Toronto Geometry Colloquium - Xiaodong Wei Rosa María Sánchez ~~Learning Trajectories for Real Time Nonlinear Optimal Control~~ Smart Grids: Model Predictive Control: first lecture part 1 F. Santambrogio - Optimal Control, Differential Games, Mean Field Games, ... EPFL Smart Grids Technologies course 2018-2019 - Lecture #5: Admittance Matrix Calculus Optimal Control Epfl

The retinal implant that Prof. Diego Ghezzi's laboratory has been working on since 2015 is now ready for clinical trials. © EPFL's ...

Why do scientific discovery take so long to reach general public?

EPFL and UNIL students collaborated with professional journalists to write data-driven articles on key social issues - family and money - for ...

Students make news by producing original data journalism

An international team of scientists led by EPFL has developed a system that combines information from the brain's connectome - the "wiring" between neurons - and machine learning to assess and predict ...

Machine learning improves prediction of stroke recovery

Both contribute equally in general in sensitive regions of the cylinder wake. Exploiting the second-order sensitivity operator, the optimal control maximising the total second-order stabilisation is ...

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Second-order adjoint-based sensitivity for hydrodynamic stability and control

In test scenarios, generated code from Dassault and Open-Mind systems feeds into the Siemens control. For this ... Starrag, EIG i-tech, EPFL, ISW-Stuttgart, WZL-Aachen, Derendinger, Franci, Progetti, ...

The ultimate Step

Additionally researchers are developing novel non-invasive monitoring techniques and control systems for multi-source applications.

Systems, Buildings & Energy Efficiency

She received her Ph.D. in Control Systems from Automatic Control Laboratory (LA), Swiss Federal Institute of Technology in Lausanne (EPFL), Switzerland in February 2016. She was a Visiting Scholar at ...

Dr Mahdiah Sadabadi

Soria's team at EPFL didn't invent the idea of predictive ... which weigh 10 times less than a smartphone. Predictive control is all about finding the optimal answer to a problem with a ton ...

Watch a Drone Swarm Fly Through a Fake Forest Without Crashing

An effective method to solve optimal stopping problems for Lévy processes in infinite horizon or how to avoid differential or integro-differential equations while solving an optimal stopping problem ...

Past seminars

Consequently, the modified inverted PSCs show an optimal power conversion efficiency of 22.1% and ... (E and F) XPS spectra of Pb 4f and N 1s in control and PPP-modified perovskite films. a.u., ...

Efficient and stable inverted perovskite solar cells with very high fill factors via incorporation of star-shaped polymer

Dubbed Pleurobot, the salamander robot designed by the Ecole Polytechnique Federale de Lausanne (EPFL) is helping scientists there better ... and by determining their optimal placement, to correctly ...

Salamander Robot Walks Like the Real Thing

Using shortest path algorithms, we show that, given an initial library of materials and microstructures, a combination of these two elements providing optimal fit with a target resistance-strain curve ...

Novel insights into the design of stretchable electrical systems

2 Swiss Institute for Experimental Cancer Research (ISREC), School of Life Sciences, Swiss Federal Institute of Technology in Lausanne (EPFL), 1015

Lausanne ... at doses well below the established ...

Macrophage depletion induces edema through release of matrix-degrading proteases and proteoglycan deposition

RaySearch and CHUV will also work together on various dimensions of treatment optimization, operational efficiency including optimal machine utilization and the new treatment technique FLASH ...

RaySearch Signs Extensive Agreements With a Clinic in Switzerland Including an Order For RayCare and the First Order For RayIntelligence

An international team of scientists led by EPFL has developed a system that combines information from the brain's connectome - the "wiring" between neurons - and machine learning to assess and ...

Machine-learning improves the prediction of stroke recovery

"The key is to find the optimal neuro-rehabilitative strategy ... of the Defitech Chair for Clinical Neuroengineering at EPFL's School of Life Sciences. "If we want to address these challenges ...

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