



**CALL FOR PAPERS
SPECIAL SESSION ON
“Healthcare policy optimization using AI techniques”
for CODIT’20
June 29 - July 2, 2020 ▪ Prague, Czech Republic**

Session Chair:

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Session description

This special session deals with the problem of decision making in public health which is almost always made in the context of uncertainty. Policy makers responsible for making important decisions are faced with the daunting task of choosing from amongst many possible options. This task is called planning under uncertainty, and is particularly acute when addressing complex systems, such as issues of global health and development. Decision making under uncertainty is a challenging task, and all too often this uncertainty is averaged away to simplify results for policy makers. A popular way to approach this task is to formulate the problem at hand as a (partially observable) Markov decision process, (PO)MDP. This session aims to invite papers that apply AI techniques to challenging problems in health and development.

The topics of interest include, but are not limited to:

- Health policy
- Dynamic programming, Value iteration
- Optimal control
- Reinforcement learning
- Markov Decision Process, Partially observable MDP
- Value of Information
- Planning under uncertainty
- Policy cost effectiveness
- Medical decision making
- Optimal vaccination policy

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **January 24, 2020**: <http://controls.papercept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDiT 2020 link “Submit a Contribution to CoDiT 2020” and follow the steps.**

IMPORTANT: All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).

DEADLINES

January 24, 2020: deadline for paper submission

April 10, 2020: notification of acceptance/reject

May 7, 2020: deadline for final paper and registration