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PLAN DE RECHERCHE - Page de couverture RESEARCH PLAN - Cover Page

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Directeur de thèse / <i>Thesis director</i> Codirecteur / <i>co-director</i>	Prof. Patrick Thiran	
Nom du laboratoire / <i>Laboratory's name</i> Localisation / <i>Location</i>	Laboratoire pour les communications informatiques et leurs applications 3 EPFL	
Date d'immatriculation <i>Date of enrolment</i>	01.09.2015	

Titre provisoire de la thèse <i>Provisional title of the thesis</i>	Gaussian Processes to Study the Joint Dynamics of Networks and Time Series
Resumé / Abstract *	
<p>Gaussian processes are a class of statistical models whose popularity in Machine Learning has been increasing dramatically in recent years. They provide a powerful framework for regression and classification, while exhibiting great flexibility and interpretability. We describe in this work how they can be extended into a recurrent structure to learn dynamical patterns and how they can model spatio-temporal point processes. This will lead us to the study of co-evolutionary network and time series, and how Gaussian processes can be exploited to improve the existing joint dynamics models.</p>	

*Résumé et plan de recherche lus et approuvés / *Abstract and research plan read and approved

Candidat <i>Candidate</i>	Directeur de thèse <i>Thesis director</i>	Codirecteur de thèse <i>Thesis co-director</i>	Dir. de programme <i>Doctoral program dir.</i>
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Instructions pour le plan de recherche / Guidelines for Research Proposal
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