

Dear Profs. Margaria and Kinsella,

I am delighted to participate as Official Collaborator in the Research at Immersive Software Engineering (R@ISE) Strategic Partnership Programme application.

I am currently a Professor of Computer Science at UCLouvain Belgium. I am also the leader for CyberWal, the driving force for cybersecurity in Wallonia. CyberWal, which encompasses all research institutes active in cybersecurity in Wallonia, is made up of several research projects for a total of more than 45 million euros. Eventually, the initiative will represent more than 100 researchers. One of the missions of CyberWal is to establish international collaborations with European countries on disruptive topics related to cybersecurity (Privacy, Security by Design, Machine Learning for cybersecurity, ..).

Due to my unique expertise in formal methods, statistical model checking and with my role of CyberWal leader, I will support as Official Collaborator the following WP:

**Pillar 1: Advanced Low-code Development Environments**

**WP1.3: Embedded Data management, Privacy and Security**

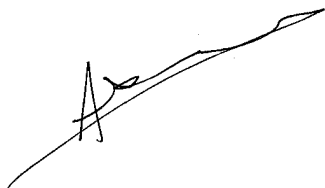
**Leader:** UL (M. Hinchey) **Vice-leader:** Tines (B. Long)

I am actively participating in this work package. This opportunity will extend and deepen the ongoing collaboration with the R@ISE team and, via CyberWal, should strengthen the relationship between our two countries.

I will be glad to spend a period in Limerick collaborating on site with the R@ISE team, currently estimated at ca 2 weeks. I will also potentially host in my research group one or two of the Postdocs or PhD students in R@ISE for a working visit.

I look forward to collaborating with Profs. Margaria and Kinsella in the future, and look forward to a positive outcome in this regard.

Sincerely Yours,

A handwritten signature in black ink, appearing to be "Axel Legay", written over a horizontal line.

Prof. Axel Legay

Diktatzeichen      Aktenzeichen      Ort      Datum      Dienstgebäude/Raum

Dortmund, 27<sup>th</sup> September 2022

Dear Profs. Margaria and Kinsella,

I am delighted to participate as Official Collaborator in the Research at Immersive Software Engineering (R@ISE) Strategic Partnership Programme application.

I am currently the longest serving Editor of Springer Nature's Lecture Notes in Computer Sciences (LNCS), responsible for the categories Theory and Software Engineering, co-founder and editor in chief of Springer Nature's International Journal on Software Tools for Technology Transfer (STTT), as well as co-founder of the European Joint Conference on Theory and Practice of Software (ETAPS), of the International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS), of the International Symposium on Leveraging Applications of Formal Methods, Verification and Validation (ISoLA), and of the Challenge for the Rigorous Examination of Reactive Systems (RERS).

On the technical side, the concept of Language-Driven Engineering (LDE), and the corresponding supporting frameworks CINCO and DIME originate in my group in Dortmund. The entire underlying tool stack aims at low/no code development based on dedicated domain/purpose-specific languages that, in particular, also address stakeholders without any programming expertise.

Due to my unique expertise in programming languages and programming platform design as well as formal methods, I will support as Official Collaborator the WPs

**Pillar 1: Advanced Low-code Development Environments**

**WP 1.1 Application development in a low-code and no-code platform**

**Leader:** UL (T. Margaria) **Vice-leader:** Tines (B. Long)

**WP1.2: Back-end automation and integration**

**Leader:** Tines (E. Hinchy), **Vice-leader:** J&J (G. Madden)

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IBAN DE 09440 50199 00011 81327  
SWIFT DORTDE33

**Pillar 2: Digital Thread in Integrated Software and System Ecosystems**

**WP 2.1 Digital Thread in the ADI Catalyst ecosystem**

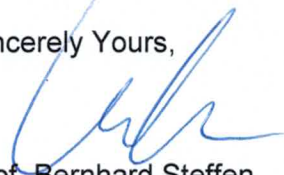
**Leader:** ADI (M. Morrissey) **Vice-leader:** UL (T. Margaria)

I am actively participating in these work packages. This opportunity will extend and deepen the ongoing collaboration with the R@ISE team in particular concerning the further evolution of the CINCO and DIME frameworks.

I will be glad to spend time in Limerick collaborating on site with the R@ISE team, and I am happy to host adequate R@ISE Postdocs or PhD students in my research group for a working visit.

I look forward to collaborating with Profs. Margaria and Kinsella in the future, hopefully as part of an adequately funded project.

Sincerely Yours,



Prof. Bernhard Steffen

**Scoil na hInnealtóireachta  
Leictreonaice DCU**  
Ollscoil Chathair  
Chaile Átha Cliath  
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Re: R@ISE

Dublin, September 26<sup>th</sup>, 2022

## Letter of Collaboration

**Dear Professor Margaria and Professor Kinsella,**

I am very happy to participate as an Official Collaborator in the Research at Immersive Software Engineering (R@ISE) Strategic Partnership Programme application.

I am Head of the Performance Engineering Lab at Dublin City University (DCU). My team and I perform research which proposes state of the art solutions for improving content delivery performance in telecommunications networks.

Due to my unique expertise in various aspects of modelling and simulations of telecommunication networks, especially at the transport and application layers, I will support the R@ISE project as Official Collaborator in the following WP:

***WP2.3: Integration in the civil and cultural space.***

Leader: UL (S. Kinsella) Vice-leader: LCCC (A. Dooley)

This collaboration will enable us to deepen our ongoing collaboration with the R@ISE team, which has started as part of the Lero SFI Research Centre for Software.

As part of this project, I will be glad to spend a period in Limerick collaborating on site with the R@ISE team, currently estimated at about 2 weeks. I will also potentially host in my research group one or two of the R@ISE Postdocs or PhD students.

I look forward to collaborating with Professor Margaria and Professor Kinsella in this project, and I hope for a positive outcome in the evaluation process.

Yours sincerely,

**Professor Gabriel-Miro Muntean**

Director, DCU Performance Engineering Laboratory  
Associate Editor, IEEE Transactions on Broadcasting  
Area Editor Multimedia Communications, IEEE Communications Surveys and Tutorials  
School of Electronic Engineering, Dublin City University, Ireland



Sept 26, 2022

UPPSALA  
UNIVERSITET

Inst. för informationsteknologi

Wang Yi

Professor i inbyggda system

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Dear Profs. Margaria and Kinsella,

I am delighted to participate as Official Collaborator in the Research at Immersive Software Engineering (R@ISE) Strategic Partnership Programme application.

I am currently a professor holding the Chair of Embedded Systems at Uppsala University, and a recipient of ERC Advanced Grant. Due to my unique expertise in design and efficient analysis of distributed systems, I will support as Official Collaborator the WP's:

**Pillar 1: Advanced Low-code Development Environments**

**WP1.2: Back-end automation and integration**

**Leader:** Tines (E. Hinchy), **Vice-leader:** J&J (G. Madden)

**Pillar 2: Digital Thread in Integrated Software and System Ecosystems**

**WP2.2: Integration for mobility and supply chains**

**Leader:** Tracworx (E. O'Brien) **Vice-leader:** UL (S. Saay)

I am actively participating in these work packages. This opportunity will extend and deepen the ongoing collaboration with the R@ISE team on the design and dynamic updates of embedded software.

I will be glad to spend a period in Limerick collaborating on site with the R@ISE team, currently estimated at ca 2 weeks. I will also potentially host in my research group one or two of the Postdocs or PhD students in R@ISE for a working visit.

I look forward to collaborating with Profs. Margaria and Kinsella in the future, and look forward to a positive outcome in this regard.

Sincerely Yours,

Wang Yi

Chair professor, Uppsala University

Fellow of ACM & IEEE



**Dymaxion**

Dear Profs. Margaria and Kinsella,

I am delighted to participate as Official Collaborator in the Research at Immersive Software Engineering (R@ISE) Strategic Partnership Programme application.

I am currently the owner and CEO of Dymaxion OU and a researcher at Tallinn University.

Due to my unique expertise in secure legal contracts and blockchain, I will support as Official Collaborator the WP

### **Pillar 1: Advanced Low-code Development Environments**

#### **WP1.3: Embedded Data management, Privacy and Security**

**Leader:** UL (M. Hinchey) **Vice-leader:** Tines (B. Long)

I am actively participating in these work packages. This opportunity will extend and deepen the ongoing collaboration with the R@ISE team.

I will be glad to spend a period in Limerick collaborating on site with the R@ISE team, currently estimated at ca 2 weeks. I will also potentially host in my research group one or two of the Postdocs or PhD students in R@ISE for a working visit.

I look forward to collaborating with Profs. Margaria and Kinsella in the future, and look forward to a positive outcome in this regard.

Sincerely Yours,

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Dr. Alexander Norton

Dear Profs. Margaria and Kinsella,

I am delighted to participate as Official Collaborator in the Research at Immersive Software Engineering (R@ISE) Strategic Partnership Programme application.

I am currently leader of the Formal Modeling and Analysis of Embedded Systems research group, and use-case coordinator within a research profile called Dependable Platforms for Autonomous Systems and Control (DPAC) led by Mälardalen University, and involving 12 industrial partners.

Due to my unique expertise in Embedded and Cyberphysical systems, I will support as Official Collaborator WP's

### **Pillar 1: Advanced Low-code Development Environments**

#### **WP1.2: Back-end automation and integration**

**Leader:** Tines (E. Hinchy), Vice-leader: J&J (G. Madden)

### **Pillar 2: Digital Thread in Integrated Software and System Ecosystems**

#### **WP 2.1 Digital Thread in the ADI Catalyst ecosystem**

**Leader:** ADI (M. Morrissey) Vice-leader: UL (T. Margaria)

#### **WP2.2: Integration for mobility and supply chains**

**Leader:** Tracworx (E. O'Brien) Vice-leader: UL (S. Saay)

#### **WP2.3: Integration in the civil and cultural space.**

**Leader:** UL (S. Kinsella) Vice-leader: LCCC (A. Dooley)

I am actively participating in these work packages. This opportunity will extend and deepen the ongoing collaboration with the R@ISE team in achieving integrated development environments applicable and useful to industry.

I will be glad to spend a period in Limerick collaborating on site with the R@ISE team, currently estimated at ca 2 weeks. I will also potentially host in my research group one or two of the Postdocs or PhD students in R@ISE for a working visit.

I look forward to collaborating with Profs. Margaria and Kinsella in the future and look forward to a positive outcome in this regard.

Sincerely Yours,

Prof. Cristina Seceleanu



# ROSE-HULMAN

INSTITUTE OF TECHNOLOGY

Dear Profs. Margaria and Kinsella,

I am delighted to participate as Official Collaborator in the Research at Immersive Software Engineering (R@ISE) Strategic Partnership Programme application.

I am currently a Professor of Computer Science and Software Engineering at Rose-Hulman Institute of Technology in Terre Haute, Indiana USA. I am also the Director of the Multidisciplinary Minor of Robotics at Rose-Hulman.

Due to my unique expertise in education and training at the interface of computer science and systems engineering, I will support as Official Collaborator the WPs

## **Pillar 2: Digital Thread in Integrated Software and System Ecosystems**

### **WP 2.1 Digital Thread in the ADI Catalyst ecosystem**

**Leader:** ADI (M. Morrissey) **Vice-leader:** UL (T. Margaria)

### **WP2.2: Integration for mobility and supply chains**

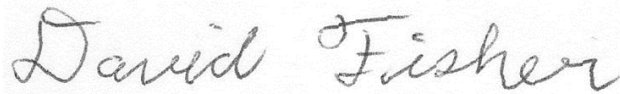
**Leader:** Tracworx (E. O'Brien) **Vice-leader:** UL (S. Saay)

I am actively participating in these work packages. This opportunity will extend and deepen the ongoing collaboration with the R@ISE team.

I will be glad to spend a period collaborating with the R@ISE team, currently estimated at ca 2 weeks. I will also potentially host in my research group one or two of the Postdocs or PhD students in R@ISE for a working visit.

I look forward to collaborating with Profs. Margaria and Kinsella in the future, and look forward to a positive outcome in this regard.

Sincerely,



David S. Fisher  
Tel. 812-877-8619  
Fax. 812-877-8025  
Email David.Fisher@Rose-Hulman.edu

Dear Profs. Margaria and Kinsella,

I am delighted to participate as Official Collaborator in the Research at Immersive Software Engineering (R@ISE) Strategic Partnership Programme application.

I am currently the Head of the Formal Methods Unit where we pursue research in many topics related to the proposal. In particular, my background and interest on privacy and the specification and analysis of normative documents are especially relevant.

Due to my unique expertise in secure legal contracts based on formal models, I will support as Official Collaborator the WP

### **Pillar 1: Advanced Low-code Development Environments**

#### **WP1.3: Embedded Data management, Privacy and Security**

**Leader:** UL (M. Hinchey) **Vice-leader:** Tines (B. Long)

I am actively participating in these work packages. The opportunity to take part of the project will extend and deepen the ongoing collaboration with the R@ISE team.

I will be glad to spend a period in Limerick collaborating on site with the R@ISE team, currently estimated at ca 2 weeks. I will also potentially host in my research group one or two of the Postdocs or PhD students in R@ISE for a working visit.

I look forward to collaborating with Profs. Margaria and Kinsella in the future, and look forward to a positive outcome in this regard.

Sincerely Yours,



Prof. Gerardo Schneider  
Head of the Formal Methods Unit  
Department of Computer Science and Engineering  
Chalmers & University of Gothenburg  
Tel. +46 72-974 49 64  
gersch@chalmers.se



Verona Sept. 27, 2022

Dear Profs. Margaria and Kinsella,

I am delighted to participate as Official Collaborator in the Research at Immersive Software Engineering (R@ISE) Strategic Partnership Programme application.

I am currently the leader of the IoT4care research group, and a member of the Cyber-physical and IoT System Design research area at the University of Verona, mainly working on design and verification of cyber-physical systems in the healthcare and sustainable living application fields. I am very enthusiastic in participating to the R@ISE proposal as its underpinning idea is of paramount interest for the rapid development of future applications in my research fields.

Due to my unique expertise in Embedded and Cyberphysical systems, I will support as Official Collaborator WP's

#### **Pillar 1: Advanced Low-code Development Environments**

##### **WP 1.1 Application development in a low-code and no-code platform**

**Leader:** UL (T. Margaria) **Vice-leader:** Tines (B. Long)

##### **WP1.2: Back-end automation and integration**

**Leader:** Tines (E. Hinchy), **Vice-leader:** J&J (G. Madden)

#### **Pillar 2: Digital Thread in Integrated Software and System Ecosystems**

##### **WP 2.1 Digital Thread in the ADI Catalyst ecosystem**

**Leader:** ADI (M. Morrissey) **Vice-leader:** UL (T. Margaria)

##### **WP2.2: Integration for mobility and supply chains**

**Leader:** Tracworx (E. O'Brien) **Vice-leader:** UL (S. Saay)

I am actively participating in these work packages. This opportunity will extend and deepen the ongoing collaboration with the R@ISE team.

I will be glad to spend a period in Limerick collaborating on site with the R@ISE team, currently estimated at ca 2 weeks. I will also potentially host in my research group one or two of the Postdocs or PhD students in R@ISE for a working visit.

I look forward to collaborating with Profs. Margaria and Kinsella in the future and look forward to a positive outcome in this regard.

Sincerely Yours,

Prof. Graziano Pravadelli

Dept. of Computer Science  
Munster Technological University  
Bishopstown  
Cork, Ireland

September 27, 2022

Dear Profs. Margaria and Kinsella,

I am delighted to participate as Official Collaborator in the Research at Immersive Software Engineering (R@ISE) Strategic Partnership Programme application.

I am currently Funded Investigator in the SFI CONFIRM and CONNECT centres, investigating solutions for high speed wireless communications. Due to my unique expertise in communication networks, spanning from low-power Internet of Things to high data rate data centre networks, 5G and beyond, I will support as Official Collaborator the following WPs:

**Pillar 2: Digital Thread in Integrated Software and System Ecosystems**

WP2.2: Integration for mobility and supply chains

Leader: Tracworx (E. O'Brien) Vice-leader: UL (S. Saay)

WP2.3: Integration in the civil and cultural space.

Leader: UL (S. Kinsella) Vice-leader: LCCC (A. Dooley)

I actively am participating in these work packages. This opportunity will extend and deepen the ongoing collaboration with the R@ISE team.

I will be glad to spend a period in Limerick collaborating on site with the R@ISE team, currently estimated at ca 2 weeks. I will also potentially host in my research group one or two of the Postdocs or PhD students in R@ISE for a working visit.

I look forward to collaborating with Profs. Margaria and Kinsella in the future, and look forward to a positive outcome in this regard.

Sincerely yours,



Dr. Victor Cionca



**REF: R@ISE**

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26<sup>th</sup> September 2022

Dear Profs. Margaria and Kinsella,

I am delighted to participate as Official Collaborator in the Research at Immersive Software Engineering (R@ISE) Strategic Partnership Programme application.

I am currently a lecturer in Software Architecture and Machine Learning in the Department of Computer Science and Information Systems at the University of Limerick. I have an MSc Hons Artificial Intelligence from Queen Mary University London. My research is on the semi-automated parallelisation of sequential software using Grammatical Evolution (GE). I was awarded the 2021 Lero Director's Prize for Research Excellence with my colleagues Profs. C. Ryan and M. O'Neill for our work on GE. I have co-supervised 4 PhDs and supervised more than 70 MSc dissertations, and have more than 70 publications with 2,500 citations. My publications cover core software engineering domains from component-based development to service level contracts. My roles as Computer Science Course Director and ISE Head of Residencies in UL are premised on a research driven practice-based approach to moving from architecture to implementation, a perfect fit with R@ISE.

I will support as Official Collaborator WPs:

### **Pillar 1: Advanced Low-code Development Environments**

#### **WP1.2: Back-end automation and integration**

**Leader:** Tines (E. Hinchy), **Vice-leader:** J&J (G. Madden)

### **Pillar 2: Digital Thread in Integrated Software and System Ecosystems**

#### **WP2.2: Integration for mobility and supply chains**

**Leader:** Tracworx (E. O'Brien) **Vice-leader:** UL (S. Saay)

I actively am participating in these work packages. This opportunity will extend and deepen the ongoing collaboration with the R@ISE team.

I will be glad to spend a period in Limerick collaborating on site with the R@ISE team, currently estimated at ca 2 weeks.

I look forward to collaborating with Profs. Margaria and Kinsella in the future, and look forward to a positive outcome in this regard.

Yours sincerely

Signature: \_\_\_\_\_

Date: 26/Sept/2022

John James Collins