



<b>Fellow</b>	Urooj Fatima
<b>Host Organisation</b>	NTNU, Norway
<b>Scientific coordinator</b>	Katrien De Moor



## I – SCIENTIFIC ACTIVITY DURING YOUR FELLOWSHIP

The fellow's research background is in systems design and analysis. The idea was to further explore and find ways to bring together the principles and practices of system designs with other domains, i.e., user experience and sustainability. Therefore, the fellow's initial period of research consisted of activities related to the state of transition to other research domains to explore further possibilities of research with the community. This resulted in an interdisciplinary research topic that was successfully executed and accepted by an international conference (details given in Section-II).

Activity (As given in the RTP)	Outcome	Achievements
Participation in ERCIM Seminar	Knowing ERCIM Community better	Executed as per plan
Establishment of connections with related research communities	Geared-up transition from previous research field into new domains	<ul style="list-style-type: none"> <li>- Participation in a User Experience online course of 6 weeks as detailed in Section - III</li> <li>- Attending various seminars and talks as explained in Section - III</li> </ul>
Participation in Dagstuhl seminar - in case of acceptance of submitted articles	Networking with international research community and recognition of scientific contributions	This activity couldn't be executed due to some logistics problem associated with the timings of the seminar. However other venues (given in Section – III) were joined that are not mentioned in the RTP.
Attendance of other conferences/ workshops	Better insight into the application area	Details given in Section-III
Reviewing activities as TPC member	Networking with related research communities and evaluation of on-going research activities.	TPC member in <ul style="list-style-type: none"> <li>- International Conference on Engineering and Computing Technologies, <b>ICECT-2021</b>, November 18, 2021, Islamabad, Pakistan</li> <li>- IEEE 2<sup>nd</sup> International Conference on Digital Futures and Transformative Technologies, <b>ICoDT2-2022</b>, May 24-26, 2022, Islamabad, Pakistan</li> <li>- 10<sup>th</sup> ACM <b>womENcourage 2023</b>, September 20-22, Trondheim, Norway</li> </ul>



Participation in related research activities/projects with hosting team's Networking research group	Establishment of strong research connections and collaboration activities with the hosting institute.	Details given in Section-III
Planning and submission of article 1	Recognition in Scientific Community	Paper accepted to be published. Details given in Section-II
Visiting other fellow ERCIM institute	Collaboration of research topics and exposure with other work environments	Visited ISTI-CNR, Pisa, Italy for 5 days. Details given in Section-IV
Planning and submission of article 2 (tentative)	Recognition in Scientific Community	A Paper and an extended abstract submitted. Details given in Section-II

## II – PUBLICATION(S) DURING YOUR FELLOWSHIP

- Urooj Fatima and Katrien De Moor. "Towards Integration of Sustainable User Experience Aspects in Systems Design: A Human-Centered Framework". **ACCEPTED** In 18<sup>th</sup> International Conference on Software Technologies, ICSOFT 2023, Rome, Italy, July 10-12, 2023. (Regular Paper)
- Urooj Fatima and Katrien De Moor. "Towards Achieving Sustainable Multimedia Experiences by Using the SUXEH Framework". **SUBMITTED** In International Conference on Quality of Multimedia Experience, QoMEX 2023, Ghent, Belgium, June 20-22, 2023. (Short Paper)
- Urooj Fatima and Katrien De Moor. "Towards Integration of Sustainable User Experience Aspects in Software Systems Design: A Human-Centered Framework". **SUBMITTED** In 10<sup>th</sup> ACM womENcourage 2023, Trondheim, Norway, September 20-22, 2023. (Extended Abstract)

## III – ATTENDED SEMINARS, WORKHOPS, CONFERENCES

- Seminar on "Making your research visible" organized by University of Bergen, UiB, Bergen (online) – March 17, 2023
- Tax return seminar for international researchers at NTNU organized by NTNU International Researcher Support (NIRS), Trondheim – March 29, 2022



- Seminar on "Towards Human-Centric Networking" organized by the Networking Research Group, Department of Information Security and Communication Technology (IIK), NTNU, Trondheim – December 3, 2021
- Seminar on "Sustainability in IT Education" organized by Norwegian ICT conference for research and education, NIKT 2021, NTNU, Trondheim – December 2, 2021
- Seminar/Course on "Working with Norwegians" organized by NTNU International Researcher Support (NIRS), Trondheim – Nov 18, 2021
- ERCIM Seminar for Knowing ERCIM Community Better organized by ERCIM Office – Nov 9, 2021
- Coursera Course on "Introduction to User Experience Principles and Processes" (Duration 6 weeks) by University of Michigan. Obtained course certificate on Nov 5, 2021

## IV – RESEARCH EXCHANGE PROGRAMME (REP)

Organization: CNR - Italian National Research Council  
Institute: ISTI - Institute of Information Science and Technologies  
Location: Pisa, Italy  
Thematic Area: Software  
Lab: SEDC – Software Engineering and Dependable Computing  
Local Scientific Coordinator: Head, Research Director Felicita Di Giandomenico  
Dates: 27.03.2023 – 31.03.2023

### **Motivation to Select it as REP Institute**

ISTI is the CNR's largest institute for Computer Science. This ERCIM institute was chosen because of having "Human Factors in Software Engineering" as one of the keywords highlighted in their research areas. I contacted the head of SEDC lab, Dr Felicita Di Giandomenico, with ERCIM REP request which was followed by a prompt and positive response by her.

### **Research-Oriented Activities**

Head of SEDC lab, Dr Felicita Di Giandomenico received me and I was introduced to the Software group and to my work area. I was invited for a talk to present my research area and myself to the Software group. The talk was attended mainly by researchers working in the thematic area of software comprising three labs, namely (1) Software Engineering and Dependable Computing (SEDC); (2) Formal Methods and Tools (FMT); and (3) System and Software Evaluation (SSE). The main idea behind the talk was to introduce NTNU research groups generally and specifically my research area. This helped in finding possible research collaborations for future. Small informal meetings with interested researchers followed the talk in upcoming days. The agenda of these meetings was to discuss in detail our individual research backgrounds and interests. We are hopeful for possible research collaborations in future.



### **Social Activities**

The president of the CNR was at ISTI to celebrate CNR 's 100<sup>th</sup> Anniversary on my first day. Throughout my visit I was invited for small indoor and outdoor lunch occasions and coffee breaks. It was really nice to know the people and different working culture at CNR via these activities.