

Curriculum Vitae

Houda CHIHI

PhD in Telecommunications.

Innov'COM Lab at Sup'Com.

Eugen Ionescu Postdoc Fellow 2021

Techwomen Fellow 2019

Internship at Qualcomm Californie

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ACADEMIC UNIVERSITY CURRICULUM

2016 : PhD in Telecommunications. Host laboratory : INNOV'COM at the Higher School of Communications of Tunis (SUP'COM), National School of Engineers of Tunis (ENIT).

2009 : Master in Telecommunications at the National School of Engineers of Tunis (ENIT).

2007 : Bachelor in Electronic and Instrumentation at the Higher School of Sciences and Techniques of Tunis (ESSTT).

2004 : Bachelor in Telecommunications at the Higher Institute of Technological Studies in Communications of Tunis (ISET'Com).

OBTAINED DIPLOMAS

- **PhD**

- ✓ Specialty : Telecommunications.
- ✓ Date : Juin 2016.
- ✓ Mention : very Honorable.
- ✓ Affiliation : INNOV'COM at the Higher School of Communications of Tunis (SUP'COM).

- **Master**

- ✓ Specialty : Telecommunications.

- ✓ Date : Juin 2009.
- ✓ Mention : very Honorable.
- ✓ Affiliation : the National School of Engineers of Tunis (ENIT).

- **Bachelor**

- ✓ Specialty : Electronic and Instrumentation.
- ✓ Date : June 2007.
- ✓ Affiliation: Higher School of Sciences and Techniques of Tunis (ESSTT).

- **Bachelor**

- ✓ Specialty : Telecommunication.
- ✓ Date : February 2004.
- ✓ Affiliation: Higher Institute of Technological Studies in Communications of Tunis (ISET'Com).

- **Baccalaureate**

- ✓ Session : June 2001.
- ✓ Specialty : Science.
- ✓ Affiliation : Secondary High School of Siliana.

PROFESSIONAL EXPERIENCE

- **2005–2022** : Chief Engineer at Tunisie Telecom.

Expertise : KPI & Reporting, exploitation and maintenance of 2G/3G/4G networks (Huawei). Definition of operators into HSS (Ericsson). Provisionning (EDA / Ericsson).

- **November –December 2022** : Adjunct professor at Time High School private university of Tunisia (**TIME**).

Expertise : Security towards networks.

- **January-June 2021** : Adjunct professor at **ISI University**.

Expertise : CCNA.

- **September-December 2020** : Adjunct professor at **ISI University**.

Expertise : VoIP.

- **February- June 2019** : Adjunct professor at **ISAMM University**.
Expertise : Multimedia.

- **September-December 2019** : Adjunct professor at **Sup'COM University**.
Expertise : Electronic of transmission.

- **January-June 2019** : Adjunct professor at **ESPRIT University**.
Expertise : Electronic

- **September-December 2016** : Adjunct professor at **Iset'Com University**.
▪ **March-June 2017** : Adjunct professor at **Iset'Com University**.
Expertise : Analog Electronic.

- **September-December 2018** : Adjunct professor at **Sup'COM University**.
Expertise : Electronic of transmission.

COMPETENCIES AND PROFESSIONAL QUALIFICATIONS

- Simulation tools : MATLAB.

- * **Technical skills**
 - ✓ Telecommunications networks
 - ✓ Vehicular communication (V2X / LTE-V)
 - ✓ Mobile Networks : GSM, UMTS, HSPA, 4G / 5G.
 - Wireless communication.
 - ✓ Performances Evaluation of networks, QoS, planification..
 - ✓ NR V2X / C-V2X
 - ✓ Signal Processing
 - ✓ Green communication

PUBLICATIONS

- **Journals**

- 1 Houda CHIHRI Ridha BOUALLEGUE, Ahmed ASHORA," ON POWER ALLOCATION FOR CONGESTION CONTROL INTO NR 5G V2V," International Journal of Digital Information and Wireless Communications (IJDIWC), **Vol 11, No 2. 2021**.

- 2 **H.CHIHI** and R.BOUALLEGUE," stackelberg game exploitation for power minimization over lte-v mode 4", **Information and Telecommunication sciences Journal 2020**.
- 3 **H. CHIHI**," Energy efficiency performance evaluation for multiband-OFDM UWB cross-layer design", **IJUWBCS 3(4): 219-224 (2018)**.
- 4 **H. CHIHI**, R. Zaeem and R. BOUALLEGUE," Energy expenditure per bit minimization into MB-OFDM UWB systems," **IJDIWC, Vol.7,No. 1, 2017**.
- 5 R.M Zaeem, M. Naeimi, S.T. Arasteh, H. CHIHI," Optimal thresholds for discrete power levels using adaptive modulation in presence of imperfect channel state information," **International Journal of Advanced Computer Research 2017**.
- 6 **H. CHIHI**, R. BOUALLEGUE," Energy Efficiency Investigation for the MB-OFDM UWB Cross-Layer Design".**Wireless Personal Communication 2017**.
- 7 **H. CHIHI**, "Energy efficiency performance evaluation for multiband-OFDM UWB cross-layer design," **Int. J. Ultra Wideband Communications and Systems, Vol. X, No. Y, 2017**.
- 8 **H. CHIHI**, R. BOUALLEGUE," Energy Expenditure per Bit Minimization into MB-OFDM UWB Systems," **International Journal of Digital Information and Wireless Communications (IJDIWC), Vol 7, Issue 1, 2017**.
- 9 R. M. ZAEEM, M. NAEIMI, S. T. ARASTEH and **H. CHIHI**," Optimal thresholds for discrete power levels using adaptive modulation in presence of imperfect channel state information," **International Journal of Advanced Computer Research (IJACR), Vol 7, Issue 31, July 2017**.

• National Conferences

- 10 **H. CHIHI**, R. BOUALLEGUE and R.DE LACERDA " ChDMA Technique based MB-UWB System over the IEEE 802.15.3a Proposal ". IEEE International Conference on Multimedia Computing and Systems (**IEEE ICMCS 2014**).

• International Conferences

- 1 **H. CHIHI**, R. BOUALLEGUE and R.DE LACERDA, " **Channel Division Multiple Access Analysis into MBOFDM UWB High Data Rate System** ". IEEE International Conference on Wireless Communications and Mobile Computing (**IEEE-IWCMC 2014**), Cyprus, Août 2014.
- 2 **H. CHIHI**, A. HAMINI and R. BOUALLEGUE " **Energy consumption performance results Of multiband OFDM UWB systems** ". IEEE International Conference on Wireless Communications and Mobile Computing (**IEEE-IWCMC 2015**), Croitie, Août 2015.
- 3 **H. CHIHI**, R.DE LACERDA and R. BOUALLEGUE, " **Adaptive Modulation and Coding Scheme for MBOFDM UWB Systems** ". IEEE International Conference on Software, Telecommunications and Computer Networks (**IEEE SOFTCOM 2015**) Croitie, Septembre 2015.
- 4 **H. CHIHI**, R.ZAEEM and R. BOUALLEGUE, " **Energy Minimization by Selecting Appropriate Modulation and Coding Scheme for MB-OFDM** ". IEEE International

Conference on Advanced Information Networking and Applications (**IEEE AINA 2016**), AINA, Crans Montana 2016.

- 5 **H. CHIHI, R. ZITOUNI, R. BOUALLEGUE and A. R. CHERIF," LATENCY AWARE INTO LTE-V2X MODE 4 SYSTEM,"** IEEE SITIS 2018 : The 14th International Conference on SIGNAL IMAGE TECHNOLOGY & INTERNET BASED SYSTEMS , Las Palmas de Gran Canaria, Spain , **2018**.
- 6 **H. CHIHI, R. ZITOUNI and R. BOUALLEGUE," ENERGY EFFICIENCY AND LATENCY INVESTIGATION INTO V2V COMMUNICATION,"** 9th International Conference on Communication, Security and Optimization of Decision Support System (**IC-CSOD 2018**) , Mumbai, India , 2018.
- 7 **H. CHIHI, Rafik ZITOUNI, Ridha BOUALLEGUE, Amar RAMDANE-CHERIF:"Latency Aware Into LTE-V2X Mode 4 System."** **SITIS 2018:** 569-573, Spain,2019.

RESEARCH TRAINING AND CERTIFICATS

- **February 2021:** WomenTech Mentor ,
- **From 15 September To 14 December 2021 :** Eugen Ionescu postdoctoral internship Scholarship managed by AUF : visiting research at Politechnica University (UPB) of Bucharest (Transport Faculty).
- **From 1 to 14 December :** visiting researcher at Orange Lab at polytechnic university of Bucharest (UPB).
- **January 2019 :** TOEIC certification.
- **From 29 September To 3 November 2019 :** Techwomen Fellow 2019.
- **From 5 October To 29 October 2019 :** Internship at Qualcomm Californie.
- **From 20 Mars to 25 April 2018 :** Postdoc Internship, ECE Paris.
- **From 30 October 2017-6 January 2018:** Certificate course in advanced mobile communication technologies, UTL, India.
- **From 5 to 27 January 2015 :** Research internship, CentraleSupélec, Paris

PROFESSIONAL TRAINING & SCIENTIFIC ACTIVITIES

- International Program Committee member of the E-Palli International Conferences held at Impiana KLCC, Kuala Lumpur, Malaysia **2022**.
- Reviewer of the project with the title : "Strip-link MIMO ARchitecture for Scalable deployment of Time-sensitive and Reliable networks in Indoor Professional," **2022**.
- environments" during the application round **2022-2023**.
- Committee Member of IDEA2k22 (4th International Conference on Data, Engineering and Applications (IDEA-2k22)) **2022**.

- Member of International program committee of APICEE **2022**.
- Member of the organizing committee of ICTIST'22 May **2022**.
- Participation into the workshop organized by Elsevier about : " How to find an original research topic with an added value," 29 May **2022**.
- Participation into the workshop organized by Elsevier about : " How to make my research project visible internationally," 12 March **2022**.
- Participation into the training of Tunisie Telecom about : " Internet of Things IoT: Architecture - Applications - Technologies from 16/05/**2022** to 18/05/**2022** at Delta Center Rue des Entrepreneurs, Imm. DELTA CENTER, Charguia II, BP 210, 1080 Tunis Cedex.)
- Participation into conference Women in Data science WIDS summit organized at Tunis **2022**.
- IIOE Certificate of Competency - IIOE Training Series - Big Data General Level, UNESCO-ICHEI, January **2021**.
- Badge of competence in Pedagogy and technology, UVT Tunisia, 2019.
- Workshop Chair at EAI CICOM **2021** conference.
- Editorial board member of «Pakistan Journal of Engineering and Technology" Journal **2021**.
- Participation into webishop about : "Build your LinkedIn Profile to get Job in Europe," 2 July **2020**.
- Participation into the training of « SDN, NFV, cloud computing et architecture datacenter : Overview», from 29/01 au 31/01/**2019** at Smart Future Tunis.
- Attended the meeting of to the African Union Cybersecurity Expert Group (AUCSEG) hold from 10 - 12 December **2019** in Addis Ababa, Ethiopia.
- Attended the training of to the First North African Internet Governance hold from 22 - 24 December **2019** in Nouakchatt, Mauritanie.
- Attended the training of "Self Management", DAAD , September **2018**.
- CCNA certified, September **2017**.
- Participation at the research day of Sup'COM, Hammamet, Tunisia, September **2016**.
- Participation at International Conference on Advanced Information Networking and Applications (AINA 2016), Crans Montana, Mars **2016**.
- WCDMA RNC Dimensioning Training, CifodeCom **2015**.
- WCDMA RAN14.0 NodeB Training, CifodeCom, **2015**.
- WCDMA RAN14.0 RNC Operation Training, CifodeCom, **2015**.
- WCDMA RAN14.0 RNC Configuration Training, CifodeCom, **2015**.

- WCDMA RAN14.0 RAN Troubleshooting Training, CifodeCom, **2015**.
- UMTS RAN17.1 BSC6910 Operation and maintenance Training, CifodeCom, **2015**.
- ISSC-5G'2015 : International School on 5G , Hammamet, Tunisia, **2015**.
- GSM BSS (BSC6000) Operation level 3 Training, CifodeCom **2014**.
- WCDMA NodeB Maintenance Training, CifodeCom **2014**.
- GSM BSS (BSC 6000)Operation level 3 Training, CifodeCom **2014**.
- Participation at IEEE International Conference on Wireless Communications and Mobile Computing (IWCMC 2014), Cyprus, August **2014**.
- Participation at International Conference on Information Processing and Wireless Systems (Ip-Wis-2013), Djerba, Tunisia **2013**.
- Participation EP-CEM'2013, spring school of Magnetism Hammamet, Tunisia, **2013**.

Participation in Events

- Invited Podcaster at **Women who code**, January 2022.
- Invited Speaker at **African Seasoned Speakers Network** February 2022.
- Participation at Internet governance Forum **IGF** held at Ethiopia from 28 November to 2 December **2022**.
- Participation as speaker at **CyFy** Conference about "Boon, Bane or Bust: Can Our Planet Survive Tech? held in New Delhi from 26 to 28 October **2022**.
- Participation into Africa Internet Governance Forum (**AFIGF 2022**) held in Lilongwe Malawie from 19 to 21 July **2022**.
- Participation through an intervention into the inaugural virtual symposium of MENA Business Architecture guided Strategy Execution, 25 May **2022**.
- Invited Speaker , "5G Network Slicing " at Advanced Connectivity / 5G day organized by MUST (March 23 **2022**).
- Invited Speaker at IEEE WIE Oman section , " Tech Careers for Women" on March 27 **2022**.
- Invited Speaker at IEEE Mysore subsection, "Tips to boost your Research career " March 31 **2022**.
- Invited Speaker at IEEE Computer Science Chapter of Indonesia « Women in technology ». April **2021**.
- Invited Speaker at 5G Colloquium India , " Network slicing in 5G", July **2021**.

Associations Membership

- Leader of African women cybersecurity working group at **Afroleadership**, 2022.
- Member of AfricanUnion cybersecurity expert group (**AUECG**), 2019.

Spoken Languages

- * **Arabic.**
- * **French.**
- * **English.**
- * **Deutsch.**
- * **Hindi.**

REFERENCES

- **Prof Makoto Takizawa** : Dept. of Advanced Sciences
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- **Moxi Zhou** :

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- **Rafik Zitouni**

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