Mrs. Rim Belhassine-Cherif, *Ph.D.*
Candidate Chairperson of ITU-T Study Group 2

General Engineer

Products and Services Executive Director
Tunisie Télécom

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A. General

- *Nationality***:** Tunisian

- *Status***:** Married, 1 daughter

- *Languages***:** Arabic, French and English

B. Academic Background

2010 : Paris International MBA, ranked First, Paris-Dauphine University and Paris 1 Panthéon-Sorbonne University.

2002 : Ph.D. in Electrical Engineering, National Engineering School of Tunis (ENIT), very honourable with jury praises.

1995 : Master in Systems Analysis and Digital Processing, Telecommunications speciality, ENIT.

1994 : Graduate engineering degree in Telecommunications, Higher School of Posts and Telecommunications of Tunis (ESPTT).

C. Professional Experience

- **Products and Services Executive Director,** *Tunisie Télécom, 2011 to Present*

  Responsible for projects related to the development of new products and services (Fixed, Mobile, Internet, Business/Cloud Computing and 3G/4G Data), RDI (Research, Development and Innovation), Digital Transformation, e-Health/e-education (projects for the Government) and strategic partnerships.

- **Products and Services Director,** *Tunisie Télécom, 2007 to 2011*

  Responsible for the study of new products and services (Fixed, Mobile, Internet, Business and Data), offers and promotions development and technical launch,

supervision of technical studies and conduct of tenders for the commissioning of projects related to the acquisition of new value-added services and solutions deployment (including the work on new platforms integration to the existing network), CPE acquisition, new engineering offers, engineering solutions (business, voice, multimedia, messaging and content) as well as the pipeline management of ongoing projects.

- **Head of Strategic Studies and Technology Watch Division,** *Tunisie Télécom, 2002 to 2007*

  Responsible for switching projects (establishment of the NGN network, establishment of fixed and mobile IN platforms, Wireless Local Loop (WLL) and CDMA WLL Projects, Centralized management system project for switching systems, National Voice over IP project, …)

- **Principal Engineer then promoted to Chief Engineer (ranked first) in the Studies and Development Direction,** *Tunisie Télécom,* 1994 to 2002

  Collaborator in many projects related to infrastructure, access networks, digital transmission, centralized management systems…

D. ITU Experience

Occupied Posts

▪ Vice-Chair of ITU-T Study Group 13 "*Future networks including cloud computing, mobile and next-generation networks*" since November 2013,

▪ SG13 promotion officer responsible for Northern Africa region since November 2013, then SG13 Regional Group for Africa (SG13 RG-AFR) Vice-Chair and WP1 Chair since July 2014,

▪ Vice-Chair of ITU-T Focus Group on *"Bridging the Gap: From Innovation to Standards",* March 2013-June 2015.

Involvement in SG13 Activities

▪ Active participation and contribution to the meetings of ITU-T Study Group 13 and its collocated Rapporteur Group meetings since November 2013 *(11 contributions)*;

▪ Editor for the new work item on Scenarios of Implementing Cloud Computing in networks of developing countries *(Supp-Y.Cloud Computing Scenarios for Developing Countries)*;

▪ Strong participation to the meetings and activities of the SG13 ad-hoc groups (ad-hoc groups on: NSP, review the current SG13 activities, ToRs of FG IMT-2020 (as co-convener))

▪ Strong participation and contribution to the meetings of the Study Group 13 Regional Group for Africa, since 2014;

▪ Strong participation to the Study Group 13 Regional Workshops for Africa since 2013 as speaker, moderator (2014 and 2016) and panellist (2014 and 2016);

- ▪   Active participation as moderator and speaker to the ITU Workshop on *"Future Trust and Knowledge Infrastructure", Phase 2*, Geneva, Switzerland, 1 July 2016;

- ▪   Participation to the "*Workshop on Voice and Video Services Interoperability Over Fixed-Mobile Hybrid Environments, Including IMT-Advanced (LTE)*", Geneva, Switzerland, 01 December 2015;

- ▪   Participation to some meetings of ITU-T Focus Group on IMT-2020 (Geneva, July 2015; San Diego, June 2015 (remotely));

- ▪   Participation to the ITU Workshop on *"Future Trust and Knowledge Infrastructure", Phase 1*, Geneva, Switzerland, 24 April 2015;

- ▪   Strong participation in the organization of SG13-related events:

  - o Chairwoman of the steering committee for the 5th Study Group 13 Regional Workshop for Africa on "ITU-T Standardization Work on Future Networks : Towards a Better Future for Africa" since July 2016;

  - o Chairwoman of the steering committee for the ITU Workshop on *"Future Trust and Knowledge Infrastructure", Phase 2*, December 2015- June 2016;

  - o Chairwoman of the Steering Committee of the Forth Study Group 13 Regional Workshop for Africa on *"Future Networks for a better Africa: IMT-2020, Trust, Cloud Computing and Big Data"*, April 2015-March 2016;

  - o Member of the Steering Committee of the Third Study Group 13 Regional Workshop for Africa on *"ITU-T Standardization Challenges for Developing Countries Working for a Connected Africa"*;

Dr. Rim received a certificate of appreciation from the TSB in recognition of her contribution to ITU-T Study Group 13 standardization activities and the excellent work she performed as SG13 vice-chairperson in 2013-2016 and SG13RG-AFR vice-chairperson in 2014-2016;

Involvement in FG Innovation Activities

- ▪   Active participation to the meetings of ITU-T FG Innovation since its 6th meeting in September 2013;

- ▪   Participation as speaker and moderator to the FG Innovation workshop on "ICT Innovations in Emerging Economies", Tunis, Tunisia, 28 January 2014;

- ▪ Active participation in the organization of Focus Group Innovation's 7th meeting and workshop in Tunisia;

- ▪   Active Participation as moderator and contribution in the organization of ITU workshop on "ICT Innovations in Emerging Economies", Geneva, Switzerland, 18 September 2013,;

Involvement in other ITU-T Activities

- ▪ Participation to the Telecommunication Standardization Advisory Group meetings since June 2014 *(2 contributions)*;

- Contribution to the ITU-T SG3 and its regional groups' meetings on the topic of OTT *(SG3 RG-ARB meeting, Tunis, July 2016; SG3 meeting, Geneva, February-March 2016; SG3 RG-AFR meeting, Abidjan, January 2016; SG3 RG-ARB meeting, Manama, November-December 2015);*

- Participation to the Regional Standardization Forum for Bridging the Standardization Gap (BSG), Tunis, Tunisia, 26 July 2016;

- Participation to the ITU Workshop on *"Combating Counterfeit Using Conformance and Interoperability Solutions"*, Geneva, Switzerland, 28 June 2016;

- Member of the Content Committee for the WTSA-2016, since May 2016;

- Responsible for the organization of the TSB Director's CxO meeting (to be hosted by Tunisie Télécom in Yassmine Hammamet, Tunisia, 23 October 2016) since May 2016;

- Remote participation to ITU-D Question 3/1 meeting, Geneva, Switzerland, 8 April 2016;

- Participation as panellist to the panel on *"Emerging with the cloud: the developing markets' perspective on cloud computing"* at the ITU Telecom World 2015, Budapest, Hungary, 15 October 2015;

- Active participation to the ITU Telecom World 2015, Budapest, Hungary, 12-15 October 2015;

- Participation to the Study Group Leadership Assembly, Budapest, Hungary, 12 October 2015;

- Active participation as the representative of Tunisie Télécom for the 7th CTO meeting, Budapest, Hungary, 11 October 2015 *(2 contributions)*;

- Strong Participation and contribution to the 4th ITU-T Review Committee meeting, Tunis, Tunisia, 19-21 January 2015;

- Responsible of the organization of the 4th ITU-T Review Committee meeting, Tunis, Tunisia, 19-21 January 2015, and the meeting of TSAG Rapporteur Group on Strengthening Collaboration and its Sub-Group on Intra-ITU Collaboration and Coordination, Tunis, Tunisia, 22-23 January 2015;

- Member of the Tunisian delegation to the ITU Plenipotentiary Conference 2014, Busan, Republic of Korea, 20 October - 7 November 2014;

- Strong contribution in the establishment of the terms of references of the new ITU-T Focus Group on Digital Financial Services (FG-DFS), May-June 2014;

- Member of the Tunisian delegation to the World Telecommunication Development Conference (WTDC), Dubai, United Arab Emirates, 30 March - 10 April 2014;

- Active participation to the ITU Regional Forum for Arab Region: IMT Systems Technology, Evolution and Implementation, Tunis, Tunisia, 7-9 May 2013;

- Active participation to the ITU Workshop on "Cloud Computing", Tunis, Tunisia, June 2012;

- Contribution to the preparation of the final report and the recommendations related to the Regional Symposium ITU / BDT on *"Women and Information and Communication Technologies"*, Cairo, Egypt, 17-19 December 2003;

- Active participation as speaker to the conference of Tunisie Télécom at the regional seminar ITU / BDT for the Arabic region on the *"Convergence of fixed and mobile services and new network architectures"*; Tunis, Tunisia, 21-24 November 2005;

- Active participation as speaker to the Arabic Workshop ITU / BDT *"NGN Economics"*, Tunis, Tunisia, 6- 9 December 2004;

- Participation as speaker to the Regional Symposium ITU / BDT on *"Women and Information and Communication Technologies"*, Cairo, Egypt, 17-19 December 2003;

- Participation to the 3rd meeting of ITU-D Study Group 2 on the development and management of services and telecommunication networks, Geneva, Switzerland, September 2000;

- Participation to the training organized by ITU, Topic: "Network Planning", Duration: 2 weeks, June 1996.

Participation to ITU-related events

- Participation as speaker to the *"High Level Arab Regional Forum: Digital Economy: opportunities and Challenges for Arab National Economies – Over the Top Case"*, Tunis, Tunisia, 2-3 June 2016;

- Participation as speaker to the *"Joint ITU-AICTO Regional Standardization Forum for Arab Region"*, Tunis, Tunisia, 27 January 2014;

- Contribution as a panellist to the AICTO Seminar on: *"Creativity and technological innovation in the development of Arabic digital content industry"*, Tunis, Tunisia, 18 April 2013;

- Participation to the annual editions of the ICT4ALL, Yasmine Hammamet, Tunisia.

E. Academic Activities

Research Activities

- Founder member of the research unit *"Technical Broadband Communication and audio processing"* (TECHTRA), Higher School of Communications of Tunis (Sup'Com), unit created in January 2005;

- Areas of interest: communication protocols, software engineering, compliance testing and diagnosis;

- Doctorate: Diagnosis implementations of distributed systems modeled by Communicating Non-deterministic Finite State PLCs;

- DEA: lossless compression of digital images for a progressive reconstruction;

- Participation in a research contract: Contract between the LSS (SUPELEC CNRS, France) and SYSCOM (ENIT, Tunisia), 1994-1996 (Title: *Adaptive Systems and non linear communication systems*);
- Conducting a mid-term Scientific Symposium (LSS / SYSCOM): *Signal and Communications*, July 1994, La Marsa, Tunisia.

Coaching Activities

Coaching of several graduation projects and engineering training for engineering students in the field of telecommunications, jury president and member of several graduation project defenses in major Tunisian engineering schools.

Papers published in the context of research activities

1. R. BELHASSINE-CHERIF, A. GHEDAMSI, "*Tests de Diagnostic Additionnels pour les Automates à Etats Finis Communicants Non-Déterministes*," Sciences Electroniques Technologies de l'Information et des Télécommunications (SETIT), Sousse (Tunisia), March 2004.

2. R. BELHASSINE-CHERIF, A. GHEDAMSI, "*Outil de Diagnostic Généralisé pour les Automates à Etats Finis Communicants Non-deterministes*," SETIT, Sousse (Tunisia), March 2003.

3. R. BELHASSINE-CHERIF, "*Diagnostic des implémentations des systèmes distribués modélisées par des Automates à Etats Finis Communicants Non-déterministes*," Doctoral Thesis, National Engineering School ofTunis (ENIT), December 2002.

4. R. BELHASSINE-CHERIF, A. GHEDAMSI, "*Multiple Fault Diagnostics for Communicating Nondeterministic Finite State Machines*," The Sixth IEEE Symposium on Computers and Communications (ISCC), Hammamet (Tunisia), pages 661-666, July 2001.

5. R. BELHASSINE-CHERIF, A. GHEDAMSI, "*Diagnostic des Fautes Multiples pour des Systèmes Distribués Modélisés par des Machines à Etats Finis Communicantes*," Colloque Francophone sur l'Ingénierie des Protocoles (CFIP), Toulouse (France), pages 349-361, October 2000.

6. R. BELHASSINE-CHERIF, A. GHEDAMSI, "*Multiple Fault Diagnostics For Communicating Finite State Machine*," XV. International Symposium on Computer and Information Sciences (ISCIS), Istanbul (Turkey), pages 111-119, October 2000.

7. R. BELHASSINE-CHERIF, A. GHEDAMSI, "*Diagnostic Tests for Communicating Nondeterministic Finite State Machines,*" ISCC, Antibes (France), pages 424-429, July 2000.

8. R. BELHASSINE-CHERIF, A. GHEDAMSI, "*Diagnosing Distributed Systems Modeled by Communicating Non-Detreministic Finite State Machines*," International Conference on Artificial and Computational Intelligence for Decision, Control and Automation In Engineering and Industrial Applications (ACIDCA), Monastir (Tunisia), pages 13-18, March 2000.

9. R. BELHASSINE-CHERIF, A. GHEDAMSI, "*Multiple Fault Diagnostics For Non-Dterministic Finite State Machine*," ISCIS, Izmir (Turkey), pages 983-992, October 1999.

10. A. BENAZZA-BENYAHIA, R. BELHASSINE-CHERIF, "*Codage sans pertes pour la transmission progressive d'images,*" 5th Maghreb Symposium on numerical models of the engineer, Rabat (Morocco), November 1995.

11. R. BELHASSINE-CHERIF, "*Compression sans pertes d'images numériques en vue d'une reconstruction progressive*", DEA, ENIT, September 1995.

12. A. BENAZZA-BENYAHIA, R. BELHASSINE, "*Un schéma efficace de compression d'images numériques sans pertes par codage de Huffman,*" 14th Day of telecommunications electrical engineering and automatic (JTEA), Hammamet, Tunisia, November 1994.

F. Other Activities

- Tunisie Telecom's representative and steering committee member for the 3rd edition of Free Software National Contest, Tunis, Tunisia, June-September 2013;

- Jury member for « DEV CAMP ESPRIT MICROSOFT » event regarding Windows 8 applications development, Tunis, Tunisia, April 2013;

- Many contributions as speaker, representative of Tunisie Télécom in several national and international conferences (World Telecommunication Days, ITU Regional Symposia / BDT, Cloud MENA Forum 2015 and 2016, …);

- Member of the Taskforce on mobilizing projects launching for developing digital use and content and that, in the context of ICT-2011 sector action plan; Taskforce is composed of government representatives, telecom operators, financial institutions and private sector, May 2011;

- Member of several Nationals commissions in charge of recruiting Telecommunication engineers through external contests (2008, 2009 and 2010);

- Strong contribution to the study of technical and economic feasibility of big scale projects about infrastructures;

- Strong participation in international multi-annual cooperation projects: PRICAT: Canadian Institutional Strengthening Project in Tunisia (Telecom line) and SPSF project: Private Sector Fund Development (Telecom line);

- Strong contribution to the preparation of the World Summit on the Information Society (through Tunisie Télécom and through community activities), November 2005, awarded by a certificate from Tunisie Télécom General Direction for the efforts made during this important event;

- Member of Cifode'com Management Board (Center of Information, Training, Documentation and Studies in Communication Technologies);

- Participation in several major strategic projects in Tunisie Télécom and led to the implementation of major Telecommunications Networks projects development in Tunisia;

Dr Belhassine also has leadership qualities given her experience in telecommunication management with increasing levels of responsibility. She attended many management training including mainly MBA Training over 2 months (Topic: American Management

Techniques: An Empowered Manager, Team Work, problem solving and decision making
...).

Distinction: Honorary Diploma from Information Technology Minister - May 2002.