10th Wireless Days Conference

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Welcome Message from the Chairs

Welcome to the Annual Wireless Days Conference in its 10th edition, landing back again into its roots where it started 10 years ago. WD is firmly establishing itself as a serious venue for the dissemination of leading edge state of the art knowledge and technologies pertaining to Wireless Communications. Since its inception, it has been offering a stimulating, live environment for discussing new research paths, discoveries and results among professionals from both Academia and Industry and it has been nurturing fruitful exchange of ideas and positive interactions among Wireless Communication and Networking experts.

In this occurrence, we have made the best possible arrangements to make this event a very successful one. Through collaboration of professional colleagues in the TPC, we have selected a set of high-quality, high-impact papers for presentation as regular papers. Other valuable contributions were selected to be presented as short papers in shorter sessions.

Loyal to its tradition, WD has been able to attract authors and participants from so many countries worldwide. In this occurrence, we are proud to offer 3 keynotes speeches by three eminent scholars and leaders in Wireless Networking, namely:

- **Prof. Dr. Hossam Hassanein**, Professor and Director of the School of Computing at Queens' University, Kingston, Canada, will be sharing with us his inspiring thoughts on the provisioning of vehicle-based information services.
- **Prof. Dr. Nils Aschenbruck**, University of Osnabrück, Institute of Computer Science, Germany, will be speaking on how to build robust networks for cyber agricultural systems.
- **Prof. Dr. Mohamed-Slim Alouini** from the Computer, Electrical, and Mathematical Science and Engineering (CEMSE) Division of King Abdullah University of Science and Technology (KAUST) Saudi Arabia, will share his insights on collimated light propagation for future underwater wireless communication.

It was both a pleasure and honor to have planned this year's WD conference together with so many committed and dedicated people. I would like to take this opportunity to thank all the members of the Organization Committee for their valuable efforts and for the outstanding job they have achieved. The Program Chairs Nadjib Achir and Megumi Kaneko orchestrated this year's high quality scientific program, Ms. Aziza Lounis made a tremendous effort in coordinating the production of the conference proceedings and maintaining the conference website. Her work and efforts are duly acknowledged.

Special thanks are due to the Keynote Chair Raouf Boutaba and to the Track chairs:
- Rolland Vida, Michele Nogueira, Thierry Gayraud, Co-Chairs of the Track 1: 5G and Beyond.
- Luis Costa, Marc St-Hilaire and Yacine Ghamri-Doudane; Co-Chairs of the Track 2: Wireless Communications.
- Manuel Ricardo, Claudio Palazzi and Manzoor Ahmed Khan, Co-Chairs of the Track 3: Ad Hoc, Sensor, Vehicular and Delay Tolerant Networks.
- Carlos T. Calafate, André-Luc Beylot and Khaled Boussetta; Co-Chairs of the Track 4: Wireless Models and Simulations.
- Juan-Carlos Cano, Nadjib Aitsaad and Rui Campos, Co-Chairs of the Track 5: Mobile Networking and Computing.

In addition thanks and appreciations go to Publicity Co-Chairs: Miguel Elias Mitre Campista, Soufiene Djahel and Abduhalim Dandoush, and to the Publication Co-Chairs: Filip Idzikowski and Stefano Secci.

At last, apart from all these organizers, on behalf of Wireless Days 2018, I would like to thank all the authors of high quality submissions who trusted our conference to be the best venue for publishing their research findings. Wireless Days 2018 will not materialize and succeed without your trust and support. the WD community is very grateful to the IEEE, the IEEE Communication Society and to the IFIP for their technical sponsorship. WD is also grateful for the support of the Sorbonne Université, the Université Paris 13, l'Université La Rochelle, the University of California UCLA and for the Canadian University Dubai.
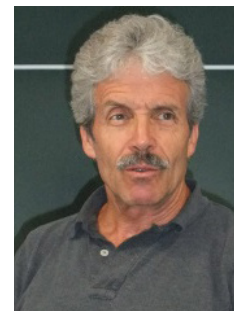
Finally, we would like to wish you a very pleasant stay in Dubai, and hope you will find the WD'2018 an exciting, joyful and fruitful experience.
Adel Ben Mnaouer, Catherine Rosenberg and Mario Gerla
General Co-Chairs of the Wireless Days 2018 Conference

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(CUD, UAE)

Catherine Rosenberg
General Co-Chair
(UWaterloo, Canada)

Mario Gerla
General Co-Chair
(UCLA, USA)

Program

WD'18

Tuesday April 3, 2018	Wednesday April 4, 2018	Thursday April 5, 2018
8:45 Welcome Coffee		
9:15 Opening Ceremony		
9:30 Keynote 1: **Towards Provisioning Vehicle-Based Information Services** Hossam Hassanein (Queen's University, Canada)	Keynote 2: **Robust Networks for Cyber Agricultural Systems** Nils Aschenbruck (University of Osnabrück, Institute of Computer Science, Germany)	Keynote 3: **Collimated light propagation: The next frontier in underwater wireless communication** Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)
10:30 Coffee break	Coffee break	Coffee break
11:00 Technical Session 1: *Ad hoc, Sensor, Mesh & Vehicular Networks*	Technical Session 3: *Wireless Communications*	Technical Session 5: *Ad hoc, Sensor, Mesh & Vehicular Networks*
12:40 Lunch Break	Lunch Break	Lunch Break
14:00 Short Session 1	Short Session 2	Short Session 3
15:40 Coffee break	Coffee break	Coffee break
16:00 Technical Session 2: *Cloud & SDN*	Technical Session 4: *Internet of Things*	Technical Session 6: *Wireless Communications*
18:00		Best Paper Awards & Closing Ceremony
20:00	Conference Dinner	

WD 2018 Keynote Speakers

Hossam Hassanein
(Queen's University, Canada)
"Towards Provisioning Vehicle-Based Information Services"

Hossam Hassanein *is a leading authority in the areas of broadband, wireless and mobile networks architecture, protocols, control and performance evaluation. His record spans more than 500 publications in journals, conferences and book chapters, in addition to numerous keynotes and plenary talks in flagship venues. Dr. Hassanein has received several recognitions and best papers awards at top international conferences. He is also the founder and director of the Telecommunications Research Lab (TRL) at Queen's University School of Computing, with extensive international academic and industrial collaborations. He is a former chair of the IEEE Communication Society Technical Committee on Ad hoc and Sensor Networks (TC AHSN). Dr. Hassanein is an IEEE Communications Society Distinguished Speaker and is a fellow of the IEEE.*

Abstract: *Intelligent vehicles are considered key enablers for intelligent transportation systems. They are equipped with resources/components to enable services for vehicle occupants, other vehicles on the road, and third party recipients. In-vehicle sensors, communication modules, and on-board units with computing and storage capabilities allow the intelligent vehicle to work as a mobile service provider of sensing, data storage, computing, cloud, data relaying, infotainment, and localization services. In this talk I introduce the concept of Vehicle as a Resource (VaaR) and shed light on the services a vehicle can potentially provide on the road or parked. We anticipate that an intelligent vehicle can be a significant service provider in a variety of situations, including emergency scenarios. I also discuss how to integrate sensor technologies available in both legacy vehicles and drivers' smartphones to provide advanced, robust localization and accurate road information services.*

Nils Aschenbruck
(University of Osnabrück, Germany)
"Robust Networks for Cyber Agricultural Systems"

Nils Aschenbruck *is a Full Professor for Computer Science at the University of Osnabrueck, Germany. His research interests include mobile and wireless networks, security, and scenario modeling. Prof. Dr. Aschenbruck has received over 20 external grants from both government funding agencies and industry. In total, his projects have received over 3 million euros in external funding. He has published over 60 refereed papers in international journals and conference proceedings.*
Prof. Dr. Aschenbruck served as reviewer for the Humboldt Foundation as well as the German Federal Ministry of Education and Research. Since 2013 he is the chair of the IEEE Computer Society Technical Committee on Computer Communications (TCCC) and since 2016 the chair of the IEEE Computer Society Technical Activities Committee (TAC). He is a Steering Committee of the IEEE Transactions on Mobile Computing as well as IEEE Conference on Local Computer Networks (LCN). Prof. Dr. Aschenbruck received his graduate diploma and PhD in computer science from the University of Bonn, Germany, in 2003 and 2008, respectively. He continued as a senior researcher and head of the research area "tactical wireless multi-hop networks" at the communication systems group at the University of Bonn. In spring 2010, he worked at the Colorado School of Mines for a term, co-funded by the DAAD short term lectureship program. Since 2012 he holds a tenured professorship for distributed systems at the University of Osnabruck, Germany.

Abstract: *Increasing the efficiency of farming has been one of, if not the, most important factor in human development since the neolithic age. It laid the path for mankind's accomplishments in the present age. Even today, new improvements are required. One of the current, most promising improvements is precision farming which demands a spatial distribution of crop parameters in order to cultivate plants in every location in precisely the correct way, e.g. by supplying the perfect amount of fertilizer. At the horizon we even start seeing the next step: smart farming towards so-called Cyber Agricultural Systems. One of the core challenges for the next step is robust and reliable networks. In this talk, I will present approaches and results from field deployments as well as point out challenges for future research towards robust networks for Cyber Agricultural Systems.*

Mohamed-Slim Alouini
(KAUST, Saudi Arabia)
"Collimated light propagation: The next frontier in underwater wireless communication"

Mohamed-Slim Alouini *was born in Tunis, Tunisia. He received the Ph.D. degree in Electrical Engineering from the California Institute of Technology (Caltech), Pasadena, CA, USA, in 1998. He served as a faculty member in the University of Minnesota, Minneapolis, MN, USA, then in the Texas A&M University at Qatar, Education City, Doha, Qatar before joining King Abdullah University of Science and Technology (KAUST), Thuwal, Makkah Province, Saudi Arabia as a Professor of Electrical Engineering in 2009. Professor Alouini has won several awards in his career: For instance, he recently received the 2016 Recognition Award of the IEEE Communication Society Wireless Technical Committee, the 2016 Abdul Hameed Shoman Award for Arab Researchers in Engineering Sciences, and the Inaugural Organization of Islamic Cooperation (OIC) Science & Technology Achievement Award in Engineering Sciences in 2017.*

Abstract : *Traditional underwater communication systems rely on acoustic modems due their reliability and long range. However their limited data rates, lead to the exploration of alternative techniques. In this talk, we briefly go over the potential offered by underwater wireless optical communication systems. We then summarizes some of the underwater channel challenges going from severe absorption and scattering that need to be surpassed before such kind of systems can be deployed in practice. We finally present some of the on-going research directions in the area of underwater wireless optical communication systems in order to better characterize and model the underwater optical channel and design, develop, and test experimentally new suitable modulation and coding techniques suitable for this environment.*

Tuesday April 3, 2018

9:15 - 9:30 Opening Ceremony

9:30 - 10:30 Keynote : Towards Provisioning Vehicle-Based Information Services
Hossam Hassanein (Queen's University, Canada)
Session chair: Adel Ben Mnaouer (CUD, UAE)

11:00 - 12:40 Technical Session 1: Ad hoc, Sensor, Mesh & Vehicular Networks 1
Session chair: Soufiene Djahel (Manchester Metropolitan University, UK)

UFAP: Ultra-Fast Handoff Authentication Protocol for Wireless Mesh Networks
Naif Alamri (University of Colorado & Taibah University, USA); Edward Chow (University of Colorado at Colorado Springs, USA); Amer Aljaedi (UCCS, USA); Abdelhamid Elgzil (University of Colorado at Colorado Springs, USA)

A Hybrid Reactive and Position-based Approach to Packet Routing in 3D Topology Networks
Daniele Ronzani (Università degli Studi di Padova, Italy); Armir Bujari and Claudio E. Palazzi (University of Padua, Italy)

Applications, Requirements, and Design Guidelines for Multi-tiered Vehicular Network Architecture
Zeeshan Hameed Mir (HCT, UAE); Fethi Filali (QMIC, Qatar)

GeoMIP: A Novel Mobility Management Solution for Internet and VANET Communication using Geographic Partition in Mobile IP
Thiwiza Bellache (UVSQ, France); Sondes Kallel (LI-PaRAD, France); Oyunchimeg Shagdar (VEDECOM, France); Samir Tohme (University of Versailles, France)

14:00 - 15:30 Short Session 1
Session chair: Ricardo Manuel (University of Porto, Portugal)

Assisted Routing Algorithm for D2D Communication in 5G Wireless Networks
Alex Bastos, Cristiano M. Silva (Universidade Federal de São João Del Rei, Brazil) and Diogenes da Silva Junior (Federal University of Minas Gerais, Brazil)

A Low Wind-Load Lightweight Foldable/Deployable Multi-Beam Base Station Antenna For the Whole LTE Spectrum
Mohamed Sanad, Noha Hassan (Cairo University, Egypt)

Common SDN control channel for seamless handover in 802.11
Rastislav Bencel, Kristián Košťál, Ivan Kotuliak and Michal Ries (Slovak University of Technology, Slovakia)

Real-time Stress Evaluation using Wireless Body Sensor Networks
Maroun Koussaifi (Université of Bourgogne Franche Comté, France); Carol Habib, Abdallah Makhoul (University of Franche- Comté, France)

16:00 - 18:00 Technical Session 2 : Cloud & SDN
Session chair: Nadjib Achir (Univeristy Paris 13, France)

A Dynamic Transmission Strategy Based on Network Slicing for Cloud Radio Access Networks
Mahdi Ezzaouia (IMT Atlantique & University of Tunis El Manar, Tunisia); Cedric Gueguen (University of Rennes 1, France); Melhem El Helou (Saint Joseph University of Beirut, Lebanon); Mahmoud Ammar (University Tunis El Manar, Tunisia); Xavier Lagrange (IMT Atlantique & IRISA, Université Bretagne Loire, France); Ammar Bouallegue (National School of Engineers of Tunis, Tunisia)

Early Classification of Residential Networks Traffic using C5.0 Machine Learning Algorithm
Zied Aouini (University of La Rochelle & Orange Labs, France); Abdesselem Kortebi (Orange Labs, France); Yacine Ghamri-Doudane (University of la Rochelle, France); Iyad Lahsen Cherif (Paris Sud, France)

A Comparative Evaluation of the Performance of Popular SDN Controllers
Lusani Mamushiane and Sabelo Dlamini (Council for Scientific and Industrial Research, South Africa); Albert A. Lysko (Council for Industrial and Scientific Research & CSIR Meraka Institute, South Africa)

Realization of Handover Management in SDNized 3GPP Architecture with Protocol Independent Forwarding
Xuan-Thuy Dang (Technical University of Berlin & GT-ARC gGmbH, Germany); Manzoor Ahmed Khan (TU Berlin, Germany); Sebastian Peters (TU Berlin & DAI Labor, Germany); Tobias Dörsch (Technical University of Berlin & GT-ARC gGmbH, Germany)

An adaptive network slicing for LTE Radio Access Networks
Pedro Rezende (Institute of Computing - University of Campinas (Unicamp), Brazil); Edmundo Madeira (State University of Campinas, Brazil)

Wednesday April 4, 2018

9:30 - 10:30 Keynote 2: Robust Networks for Cyber Agricultural Systems
Nils Aschenbruck (University of Osnabrück,Germany)
Session chair: Cano Juan-Carlos (Universitat Politecnica de Valencia, Spain)

11:00 - 12:40 Technical Session 3: Wireless Communications 1
Session chair: Sondes Kallel (LI-PaRAD, France)

In-Band Omnidirectional Initial Access via Alamouti Scheme in Millimeter-Wave Cellular Networks
Thayane Rodrigues Viana and Marcelo M Carvalho (University of Brasília, Brazil)

Cooperative D2D Communications in the Uplink of Cellular Networks with Time and Power Division
Doaa Kiwan and Amr El-Sherif (Nile University, Egypt); Tamer ElBatt (Faculty of Engineering, Cairo University & WINC, Nile University, Egypt)

Experimental Evaluation of Shore to Unmanned Surface Vehicle Wi-Fi Communications
André Coelho, Mário Lopes and Bruno Ferreira (INESC TEC and Faculdade de Engenharia, Universidade do Porto, Portugal); Rui Campos (INESC TEC and Faculty of Engineering, University of Porto, Portugal); Manuel Pereira Ricardo (Universidade do Porto & INESC Porto, Portugal)

DCT-Based Compression Scheme for OFDM Baseband Signals
Maria Nilma S Fonseca, Leonardo Ramalho, Aldebaro Klautau (UFPA, Brazil), Chenguang Lu (Ericsson Research, Sweden); Stefan Höst (Lund University, Sweden); Miguel Berg (Ericsson AB, Sweden)

14:00 - 15:40 Short Session 2
Session chair: CongDuc Pham (University of Pau, France)

A Round-Robin MAC Approach for Limiting Deafness in Mobile Ad Hoc Network Beamforming Environments
Vincenzo Inzillo, Floriano De Rango (University of Calabria, Italy); Alfonso Ariza Quintana (University of Malaga, Spain); Amilcare Francesco Santamaria (University of Calabria, Italy)

B-αWSP Selection Algorithm: a Load Balancing Convergecast for WSNs
Nassima Bouadem and Abdelkamel Tari (BEJAIA University, Algeria); Rahim Kacimi (IRIT/UPS, University of Toulouse, France);

Uplink Performance Optimization of Ultra Dense Wi-Fi Networks using AP-managed TPC
M. Shahwaiz Afaqui, Stephen Brown and Ronan Farrell (Maynooth University, Ireland)

An Artificial Neural Network Based Fault Detection and Diagnosis for Wireless Mesh Networks
Akmal Yaqini and Freshta Popalyar (Technical University of Berlin, Germany)

16:00 - 18:00 Technical Session 4: Internet of Things
Session chair: Adel Ben Mnaouer (CUD, UAE)

LOST: Localized Blacklisting Aware Scheduling Algorithm for IEEE 802.15.4-TSCH Networks
Dimitrios Zorbas (University of Piraeus, Greece); Vasileios Kotsiou (University of Strasbourg, Greece); Fabrice Théoleyre (CNRS, France); Georgios Z. Papadopoulos (IMT Atlantique, France); Christos Douligeris (University of Piraeus, Greece)

Robust CSMA for Long-Range LoRa Transmissions with Image Sensing Devices
CongDuc Pham (University of Pau, France)

Overview of IEEE802.15.4g OFDM and its Applicability to Smart Building Applications
Jonathan Munoz (Inria-Paris, EVA team, France); Emmanuel Riou (Gridbee Communications, France); Xavier Vilajosana (Universitat Oberta de Catalunya, Spain); Paul Muhlethaler (INRIA, France); Thomas Watteyne (Inria, France)

IoB-DTN: a lightweight DTN protocol for mobile IoT Applications to smart bike sharing systems
Yosra Zguira (University of Lyon 1, France); Herve Rivano (Inria & Université de Lyon, INRIA, INSA Lyon, CITI, France); Aref Meddeb (National School of Engineering, University of Sousse, Tunisia)

A Fuzzy Logic Approach for Improving the Tracking Accuracy in Indoor Localisation Applications
Imane Horiya Brahmi (University College Dublin, Ireland); Giovanni Abbruzzo and Michael Walsh (Tyndall National Institute, Ireland); Hichem Sedjelmaci (IRT System X, France); Brendan O'Flynn (Tyndall National Institude, Ireland)

BLINK: Making the Case for Bluetooth Open Source Stack
Ahmed Salem (Old Dominion University, USA); Tamer Nadeem (Virginia Commonwealth University, USA)

20:00-23:00 Conference Dinner

Thursday April 5, 2018

9:30 - 10:30 Keynote 3: Collimated light propagation: The next frontier in underwater wireless communication
Mohamed-Slim Alouini (KAUST, Saudi Arabia)
Session chair: Guy Pujolle (Sorbone University, France)

11:00 - 12:40 Technical Session 5: Ad hoc, Sensor, Mesh & Vehicular Networks 2
Session chair: Yacine Ghamri-Doudane (University of la Rochelle, France)

CRITIC: A Cognitive Radio Inspired Road Traffic Congestion Reduction Solution
Soufiene Djahel (Manchester Metropolitan University, United Kingdom (Great Britain)); Adam Jones (Manchester Metropolitan University, France); Yassine Hadjadj- Aoul (University of Rennes 1, France); Ashfaq Khokhar (Illinois Institute of Technology, USA)

Analytical study of incremental approach for information dissemination in wireless networks
Andrey Belogaev (IITP RAS & MIPT, Russia); Evgeny Khorov, Artem Krasilov and Andrey Lyakhov (IITP RAS, Russia)

A Machine Learning Approach to TCP State Monitoring from Passive Measurements
Desta Haileselassie Hagos (University of Oslo & Faculty of Mathematics and Natural Sciences, Norway); Paal E. Engelstad (Oslo and Akershus University College, University of Oslo/UNIK and FFI, Norway); Anis Yazidi (Oslo and Akershus University College, Norway); Øivind Kure (Norwegian University of Science and Technology (NTNU), Norway)

Friendly-Drop: a social-based buffer management algorithm for Opportunistic Networks
Camilo Souza and Edjair S. Mota (Federal University of Amazonas, Brazil); Pietro Manzoni, Juan-Carlos Cano, Carlos T. Calafate, Enrique Hernández-Orallo, Jorge Herrera-Tapia (Universidad Politecnica de Valencia, Spain)

14:00-15:40 Short Session 3
Session chair: Nadjib Achir (Univeristy Paris 13, France)

Linear WSN Lifetime Maximization for Pipeline Monitoring using Hybrid K-means ACO Clustering Algorithm
Maroua Abdelhafidh (ENIS, Tunisia); Mohamed Fourati and Lamia Chaari Fourati (Institut supérieur d'informatique et multimédia de sfax, Tunisia); Adel Ben Mnaouer (CUD, UAE); Mokhtar Zid (GCT, Tunisia)

A Security Solution for V2V Communication within VANETs
Hamssa Hasrouny (University of Telecom SudParis, Lebanon); Abed Ellatif Samhat and Carole Bassil (Lebanese University, Lebanon); Anis Laouiti (Telecom SudParis, France)

Sybil Attack Prevention through Identity Symmetric scheme in Vehicular Ad-Hoc Networks
Mohamed Khalil (Nile University, Egypt); Marianne Azer (Nile University, Egypt)

Investigations on Recent Power-aware Opportunistic protocols in WSN
Lamia Chaari (University of Sfax (CRNS), Tunisia); Sarah El-Kaffel (Laboratory of Technology for Smart Systems (LT2S), Tunisia); Adel Ben Mnaouer (CUD, UAE); Farid Touati (Qatar University, Qatar)

16:00 - 18:00 Technical Session 6: Wireless Communications
Session chair: Sondes Kallel (LI-PaRAD, France)

M-ary Beam Angle Shift Keying Modulation for MIMO Channels
Javad Hoseyni and Jacek Ilow (Dalhousie University, Canada)

Optimal Max-SINR Scheduling in Full-Duplex OFDMA Cellular Networks with Dynamic Arrivals
Hassan Fawaz (Saint Joseph University of Beirut, Lebanon); Samer Lahoud (ESIB, Saint-Joseph University of Beirut, Lebanon); Melhem El Helou (Saint Joseph University of Beirut, Lebanon); Marc Ibrahim (Saint Joseph University & Saint Joseph University - ESIB, Lebanon)

Increasing Data Rates in Relay-Assisted Wireless Multicast Networks with Single Antenna Receivers
Rashed Alsakarnah, Fadhel Alhumaidi and Jacek Ilow (Dalhousie University, Canada)

Radio Resource Calendaring in Cloud-based Radio Access Networks
Jocelyne Elias, (Paris Descartes University & Sorbonne Paris Cité, France); Fabio Martignon (Université Paris-Sud, France); Mira Morcos (France, France); Lin Chen (The University of Paris-Sud, France); Tijani Chahed (Telecom SudParis, France)

18:00-18:30 Best Paper Award & Closing Session

WD 2018 Venue

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Dubai is served by many major airline companies and UAE's Emirates Airline is one of the best in the world offering high-class services. Dubai has two major airports: Dubai International Airport (DXB) or the new Al Maktoum International Airport (DWC).

The closest airport to the conference venue is Dubai International Airport (DXB). Travel options for both airports can be found below.

Dubai International Airport (DXB)

The easiest travel option from DXB to the hotel is to take a taxi from the airport taxi stand. The approximate fare is AED 70 (USD 19) and the journey should take about 15 minutes.

Alternatively, you may take the Dubai Metro from Terminal 3 (if using Emirates Airlines) or Terminal 1 (if using other airlines). The journey takes around 25 minutes. You should head in the UAE Exchange direction and get off at the Dubai Mall metro station. From the station you can walk along the metro link pedestrian walkway to Dubai Mall; the walk should take about 15 minutes. A one-way metro ticket costs around 8 AED (2 USD). You may also consider purchasing a Nol Metro card if you plan to use the metro during your stay.

You may also rent a car and use the address and GPS location information above to get to the hotel.

Al Maktoum International Airport (DWC)

The easiest option is to take a taxi from the airport taxi stand to the hotel. The estimated cost is AED 100-120 (USD 27-33) and the journey duration is about 40 minutes. Alternatively, you can take a taxi to the Jebel Ali Metro station, from where you can take the metro to Dubai Mall metro station (longer and cheaper journey).

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Notes