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Prof. Dr. Basmah Moharram El Haddad C.V.

Occupation	Professor of Information Technologies, Computers & Applications in Development
Major	Computers and System Engineering
Minor	Information Technology and Artificial Intelligence
Current position	Director of Planning Techniques Center – INP
Previous positions	- Director of Planning Techniques Center (2019-present) (Assistant Researcher - Researcher – Assistant Professor – Associative Professor - Professor) (1994-2000-2008-2013-2019) - Head of "Human Resources Development and Management" Dep. at the Social and Culture Planning Center at the "Institute of National Planning"(1/2017-11/2019). - Managerial and Scientific Supervisor of the Cairo Demographic Center CDC , Institute of national Planning (9/9/2014- 14/2/2015)
Brief Work Description	As a Prof. of Information Technologies, Computers and its applications in Planning and Development, and the Director of the “Planning Techniques Center” PTC at the “Institute of National Planning”, I am generally contributing and cooperating in the Research, Training, Teaching, Academic Supervision and Projects activities at INP and (CDC before 2016), as well as drawing the governmental policies and strategic plans concerning Planning and Development in Egypt. From one side I am concerned with all the issues related to Planning Techniques, AI, information systems, emerging technologies, operation research ...etc. as well as social issues such as education, healthcare, childcare, employment, culture, social security and their implications on poverty, economic growth and job creation. From the other side, as Prof. of Information Technologies and its applications in Planning and Development concentrating on

	Artificial Intelligence with a scientific background in information and smart systems, one of my main targets is to develop, design and build intelligent systems, strategies and plans in many of the Human Development, Planning and social planning fields to improve and enhance the performance of these systems in a highly advanced manner coping with new technologies and facilities available. During the past years at INP, I was addressing specifically in my research work, health care problems, emergency medical services systems, the foreign debt crisis, decision support systems, crises management and many issues related to human development. My main objectives are to - Assist decision makers in drawing their strategies, solving their problems and making decisions, by developing and using new plans and technologies. - Tackle and solve those problems through analyzing, designing and building intelligent systems linking and coupling them with social and human development strategies
Academic Qualifications	• Completed a three-month diploma program titled "Sustainable Project Management" at Technische Universität Kaiserslautern, Germany, through the Distance and Independent Studies Center (DISC) (September – December 2012). • Ph.D. in Computers and Systems Engineering – Cairo 2008. In the field of Artificial Intelligence applying Agent Technologies during the health care domain. Thesis title: "Intelligent Agencies in Decision Support Systems". Joint Supervision: Faculty of Engineering – Ain Shams University. Cairo, Egypt & Institute of Informatics – Humboldt University Berlin. Germany, (DAAD Channel Scholarship, 2002-2004, under the supervision of Prof. Dr. Hans Dieter Burkhard) • M. Sc. in Computers and Systems Engineering–Cairo 2000. In the field of Artificial Intelligence applying Expert Systems for predicting the Foreign Egyptian Dept Crisis. Thesis title: "Information and Communication Technologies in Crisis Management". Faculty of Engineering – Ain Shams University. Cairo, Egypt. • B.Sc. , Electrical Engineering & Automatic Control-Cairo 1990, Faculty of Engineering – Ain Shams University. Cairo, Egypt
Scientific Missions	• As the Cairo Demographic Center Director participated and held a presentation during the Annual Governance Meetings of Partners in Population and Development (PPD) jointly hosted by Ministry of Health and Family

	Welfare, Government of India and PPD, in New Delhi 23-27 November 2014. My presentation illustrated the CDC's Role and its contribution to PPD supporting partner countries through various activities. • Post-Doctoral research- Re-invitation, (Wiedereinladung) for 3 Month , Humboldt University Zu Berlin, Institute fuer Informatik, Berlin , 6-9/2012
Training & Teaching Experiences	• Training and Teaching (postgraduates/ teachers and trainers/ private groups) at the following Educational Institutes and Computer Centers:- • Teaching in the Professional Master's Program in Sustainable Development Planning at the Institute of National Planning, course: Digital Transformation and Sustainable Development. • Teaching in the Academic Master's Program in Planning and Development at the Institute of National Planning, course: Modern Scientific Methods (Artificial Intelligence and advanced methodologies), from 2009 to 2024. • Teaching various topics in the course Negotiation within the Master's program at the Institute of National Planning, including Information Systems and Modern Methods in Negotiation. • Participated in teaching postgraduate studies at the Faculty of Commerce, Ain Shams University, course: Modern Systems in Crisis Management. • Institute of National Planning:- Individual Programs , INP Diploma in "Planning and Development" (AI, Expert Systems, Agent-based Systems), INP Master in "Planning and Development" (AI, Expert Systems, Agent-based Systems, ...) • Mubarak Education City (Ministry of Education Teachers) • Al Ahram Management and Computer Center • Faculty of Commerce , Ain Shams University, Cairo • Training and taching different topics as follows:- ○ Artificial Intelligence & Applications (Expert systems, Agents, Search methods, Knowledge based systems, Modern Technologies, IOT, Cloud Computing, Data Science...Machine Learning, Generative AI) ○ The Role of Information Technology in Education ○ Information Technology in Crisis Management Systems

	○ Decision Support Systems in Crisis Management ○ Expert Systems in Decision Support Systems ○ Intelligent Agent and Multi-Agents in Decision Support Systems ○ Information Technology in Human Development ○ Information System of the Negotiation Process • Teacher and Trainer of the following Computer Courses before 1996:-Windows, AutoCAD, Internet, Advanced Internet, Dos/PC (ver 3.3) (1990-1993), Lotus 1-2-3 (ver 3.3) (1990-1995), Advanced Lotus (Macros)(1990-1995), Excel, Advanced Excel
Major experiences	• Presentations & Participation at many Conferences or Workshops all over the world (Egypt, Lebanon, Tunisia, Spain, Germany, India, Brazil, Poland...) • Accomplishing and attending various Trainings, Seminars and Programs Scientific Presentations and Seminars • Participated with a presentation titled "The Role of Artificial Intelligence Technologies in Enhancing the Work of Legal Departments" at the First Arab Conference on Legal Departments: Present and Future, November 2024. • Participated in a workshop titled "Egypt's Digital Revolution: Promising Opportunities for Artificial Intelligence in Egypt" with an intervention on behalf of the Institute of National Planning titled "Strategic Directions for the Egyptian Economy Beyond 2025 and a Proposed General Framework for Applying and Evaluating the Dimensions of the Fourth Industrial Revolution", as part of the workshop series organized by the Cabinet's Information and Decision Support Center (IDSC) on June 2, 2024. • Participated in the 7th International Conference on Entrepreneurship for Sustainability and Impact, organized by the Center for Entrepreneurship and Institutional Excellence at the College of Business and Economics, Qatar University, with a research paper titled "A Proposed Expert System to Enhance the Quality of Oversight Work in Regulatory Bodies in Egypt", held from November 24–26, 2024. • Delivered a presentation during the First Training Week: The New Republic and Information Awareness, in a

seminar titled "Artificial Intelligence and Emerging Technologies to Support Egypt's Development", held at **Misr Higher Institute for Commerce and Computer Science – Mansoura**, on September 27, 2021.

- Contributed scientific presentations and seminars in the **Annual Conferences on Statistics and Computer Science**, on topics such as "Contemporary Smart Technologies", "Problem-Solving Methods in the 21st Century", and "High-Performance Computing Applications in the Social Sciences".
- Participated in the seminar "Internet of Things: Concepts, Applications, and Impact – Real-life Examples from Egypt and the New Administrative Capital", held at the **Institute of National Planning**, January 2018.
- Participated in the seminar "Emerging Technologies and Sustainable Development – The Egyptian Experience", organized by the **Institute for Competitiveness and Quantitative Studies**, Tunisia, on February 25, 2020
- **Supervising Projects at the Institute of National Planning with cooperation with Ministry of Communication and Information Technology**
- **Academic Supervision of Master Students at INP**
- **Co-Chair of the 43rd Annual Conference of the Cairo Demographic Center on "Population and Development Issues Current Situation & Future Challenges of the post – 2015 Cairo", 15 – 16 December 2014, Cairo , Egypt**
- **As the CDC Scientific & Administrative Supervisor, held and managed the International Day Festival, 11/12/2014, Cairo , Egypt**
- **Participated in discussions of the concept paper titled "Regional survey on young people in Arab countries", Pan Arab Family Health Survey PAP, League of Arab States, 22-24 December 2014, A better understanding of the reality of young people and trends and preferences"**
- **Member of various Committees:-**
 - **Assistant of the General Coordinator of the Institute of National Planning Seminar**
 - **Member of the committee of agreements at the Institute of National Planning**
 - **Previous Member of the Documentation, Information and Publication committee at the Institute of National Planning.**

	○ Previous Member of the Institute of National Planning's Website developing committee, the second Phase. ○ Previous Member of the Seminar committee at the Institute of National Planning till now ○ Member of the Substantive Committee of the Institute of National Planning ○ Member of the Egyptian Society for Information Systems and Computer Technology "ESISACT"
Publications	● B. El Haddad & H. Hassan, "A proposed auditing expert system "Audit Expert" at the auditing authorities in Egypt", 7th International Conference on Entrepreneurship for Sustainability & Impact (ESI): Redefining Business in the AI Revolution, Doha, Qatar, Nov 2024 . ● بسمة الحداد وآخرون، " الذكاء الاصطناعي وتطبيقاته في دعم أدوار مراكز الفكر: دراسة استشرافية"، سلسلة قضايا التخطيط والتنمية، تحت الطبع ● بسمة الحداد ومحمود منصور، "نحو سياسات لتعميق صناعة الذكاء الاصطناعي في مصر"، المجلة المصرية للدراسات التجارية- جامعة المنصورة- كلية التجارة، المجلد الثامن والأربعون العدد الرابع، 2024. ● هبه جمال وآخرون، " مراكز فكر المستقبل في ضوء التغيرات العالمية: مستقبلية لمراكز الفكر في مصر"، سلسلة قضايا التخطيط والتنمية (361) ، يناير 2025 ● إجلال راتب وآخرون، "دور بعض القطاعات الإنتاجية والخدمية في تحقيق هدف الصادرات حتى 2030"، معهد التخطيط القومي ● بسمة الحداد وآخرون، مجموعة أوراق خلفية لمشروع مصر ما بعد 2025، منسق عام للأوراق، "تقييم جاهزية البنية التحتية التكنولوجية لاستقبال مفردات الثورة الصناعية الرابعة"، و "تقييم استخدام التكنولوجيا الرقمية في تطوير الخدمات المالية في مصر (بالتطبيق علي القطاع المصرفي)"، "تقييم استخدام التكنولوجيات الرقمية في قطاع التعليم العالي بمصر"، 2024 ● هبه جمال الدين وآخرون، " حركة الأفرو سنترك وتأثيراتها المستقبلية علي مصر والسيناريوهات المتوقعة والسياسات الممكنة لدعم صانع القرار"، سلسلة قضايا التخطيط والتنمية 353، 2024

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- بسمة الحداد وآخرون، "دور الاقتصاد الرقمي في تعزيز تجارة وصناعة الخدمات في مصر"، سلسلة قضايا التخطيط والتنمية رقم (328)، معهد التخطيط القومي، 2022.
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- بسمة محرم الحداد، أحمد ناصر، البنية التحتية التكنولوجية والتحول الرقمي وأدواره المستقبلية في التعليم في ظل جائحة كورونا، سلسلة اوراق السياسات، معهد التخطيط القومي، الاصدار رقم (9)، مايو 2020.
- بسمة محرم الحداد، نهال الغواص، التجارة الإلكترونية في ظل تداعيات جائحة كورونا (كوفيد 19)، الاصدار رقم (14)، يونيو 2020.
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- B. El Haddad, H. Schehatta, "Towards Building A Multi-Agent Emergency Medical Services Pre-Hospital System", the forth International Conference on Intelligent Computing and Information Systems (ICICIS) 19-22 March 2009, Ain Shams Uni. Cairo - Egypt, Best Sessions Paper, March 2009
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- B. El Haddad, "Towards building Multi-Agent Systems as Supporters in the Health Care Domain", CSP Workshop, Poland 2003.

Areas of interest	• Artificial Intelligence & Applications, Digital Transformation, Emerging Technologies, Generative AI • Variant Topics related to National Planning like; Health Care, Education, Social Security, Population Studies, Crises Management, Decision Making..etc. • Smart Systems, Internet of Things, Big Data, Cloud Computing, Data Science, Data Analytics...etc. • Using Information Technology, modern techniques, smart systems and Applications in Development issues • Applying Information Technology in Crisis Management , in Business Management and Business Intelligence, in Health Care and Education ... • Artificial Intelligence Technology and Applications in Planning and Development , Knowledge-based Systems, Expert Systems, Agent-Based Systems, Decision Support , systems, Crisis Management Systems ...etc. • Information technology and systems in communication skills • Digital transformation
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