

NAZLI CHOUCRI
DEPARTMENT OF POLITICAL SCIENCE
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
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EDUCATION

American University, Cairo B.A., Social Sciences
Stanford University, California M.A., Political Science
Stanford University, California Ph.D., Political Science

ACADEMIC APPOINTMENTS

<i>Current Academic</i>	Professor of Political Science, MIT Associate Director, Technology and Development Program	1978- 1976-2012
<i>Previous Academic</i>	Associate Professor, MIT Assistant Professor, MIT Senior Faculty, Center for International Studies, MIT Head, The Middle East Program, MIT	1972-1978 1969-1972 1975- 1985-2009
<i>Other</i>	Assistant Professor, Queen's University, Canada Research Associate, Stanford University (summers) Director, Energy and Development Research Program, MIT Faculty Associate, Center for Middle Eastern Studies, Harvard University Founding Director, GSSD Global Knowledge e-Networking	1967-1969 1968-1970 1980-1982 1983-1993 1998-

AREAS OF RESEARCH INTERESTS

- International Politics – Dynamics of Conflict and Cooperation
- Quantitative Analysis – Parameter Estimation, Simulation, and Modeling
- Global Accord, Environment, and Sustainability
- CyberPolitics and Cyberspace

NEW RESEARCH DIRECTIONS

- Principal Investigator, Project on *Explorations in Cyber International Relations*, a collaboration of MIT and Harvard University, supported by the Minerva Program, US Department of Defense, 2009 – 2015
- Co-Principal Investigator, *A Multilayered Approach to Assessing the Vulnerability of Critical Infrastructure Against Cyber Attacks*, MIT-MIST Program, 2014-2016.

PROFESSIONAL ASSOCIATIONS (select)

- Council on Foreign Relations
- American Political Science Association
- American Association for the Advancement of Science
- International Political Science Association
- International Studies Association

PATENT

Networked DataBase System for Geographically Dispersed Global Sustainability (as amended), Nazli Choucri and Juliana Kousoum. Patent Application, Allowance, and Granted May 12, 1998: USSN 08/637,077 MIT Case No. 7217. (First patent in the history of MIT from the School of Humanities, Arts, and Social Science)

- Design and management of collaborative research on knowledge provision and sharing across disciplines, languages and cultures (including Arabic, Chinese, French)
- Implementation in *Global System for Sustainable Development*, Web-Based System for Multilingual Knowledge Management and Development (Arabic, Chinese, English, Spanish)

EDITORSHIP (select)

- Editorial Board, *American Political Science Review* 2012-
- Editorial Advisory Committee *International Political Science Review* 2000-
- Advisory Board, *Global Environmental Politics* 2002-
- Editor, *International Political Science Review* 1994-2000
- Founding Editor, *MIT Press Series on Global Environmental Accords* 1993-
- Board of Editors, *Business & the Contemporary World* 1992-1994

SYNERGISTIC ACTIVITIES (select)

- Graduate Courses on CyberPolitics in International Relations
- Development of databases for analysis of international relations by country since 1945
- Interdisciplinary graduate courses Technology and Policy – co-teaching across four MIT departments

**PROFESSIONAL&SCIENTIFIC
ACTIVITIES**

- CHESS Initiative of Council of Scientific Societies Presidents (CSSP)
- Scientific Advisory Committee to World Social Science Report (WSSR) 2013--
- International Institute for Strategic Studies (IISS) 2012-
- Santa Fe Institute, Science Board 2012-2013
- European Academy of Sciences 2003-
- Dr. Jean Mayer Global Citizenship Award, Tufts University Education
for Public Inquiry and International Citizenship 2003-
2005
- Chair, Scientific Advisory Committee (SAC) of UNESCO Program
Management of Social Transformation (MOST) 2006-2012
- Principal Investigator, Explorations in Cyber International Relations,
Department of Defense, Minerva Program 2000-2006
2009-2014
- Panel Member, National Academy of Sciences Committee on Terrorism 2001-2002
- Panel Member, DARPA-National Academy of Sciences Committee on
Understanding Terrorism in order to Deter Terrorism 2001-2002
- Member, Scientific Advisory Committee, SCOPE-ICSU 1998-
- Member, Science Board, Santa Fe Institute 1995-1997
- Special Advisor to the Administrator of the United Nations Development 1994-1996
- Member, Advisory Board, Global Stewardship Initiative, Pew Charitable Trust 1993-1995
- Advisor to the Secretary General of the United Nations Conference on
Environment and Development 1990-1992
- Member, AAAS Committee on Population, Resources, and the
Environment Chair, Working Group on International Aspects 1990-1992
- Convener and Session Organizer, International Political Science
Association 1984-1985
- Planning Committee, International Scientific Forum on Energy 1983-1988
- Advisory Committee, Office of Technology Assessment, U.S. Congress 1982-1983
- Board of Directors, Pathfinder Fund 1981-1983
- Council Member, American Political Science Association 1981-1983
- Panel for 1979 U.S. Conference of Science and Technology for
Development, National Research Council 1977-1978
- International Advisory Committee, World Population Society 1976-1977
- International Social Science Documentation Committee 1976-1978
- Contribution to US Academy of Engineering study on Information Systems and
the Environment 1977; published in 2001 1973-1974
- National Science Foundation Advisory Committee for Developing Guidelines of
Research on National Resource Problems 1973-1974
- Co-Chair, National Academy of Science, Middle East Workshop 1973-1974

INTERNATIONAL EXPERIENCE

Research, advising, consulting in: United Arab Emirates, Algeria, Canada, China, Colombia, Egypt, France, Germany, Greece, Honduras, Kuwait, Lebanon, Mexico, North Yemen, Pakistan, Qatar, Sudan, Switzerland, Syria, Tunisia, Turkey.

LANGUAGES

Fluent: English, French, Arabic. *Limited:* Spanish, Italian

PUBLICATIONS

BOOKS

Nazli Choucri, 2012. *CyberPolitics in International Relations*, Cambridge, MA: The MIT Press.

Nazli Choucri, Dinsha Mistree, Farnaz Haghseta, Toufic Mezher, Wallace R. Baker, and Carlos I. Ortiz, eds. 2007. *Mapping Sustainability: Knowledge e-Networking and the Value Chain*. New York: Springer.

Nazli Choucri, ed. 1993. *Global Accord: Environmental Challenges and International Responses*. Cambridge, Mass.: MIT Press.

Nazli Choucri, Robert C. North, and Susumu Yamakage. 1992. *The Challenge of Japan Before World War II and After: A Study of National Growth and Expansion*. London: Routledge.

Nazli Choucri, ed. 1984. *Multidisciplinary Perspectives on Population and Conflict*. Syracuse, N.Y.: Syracuse University Press.

Nazli Choucri. 1982. *Energy and Development in Latin America: Perspectives for Public Policy*. Lexington, Mass.: D.C. Heath/Lexington Books.

Nazli Choucri with David Scott Ross. 1981. *International Energy Futures: Petroleum Prices, Power, and Payments*. Cambridge, Mass.: MIT Press.

Nazli Choucri and Thomas Robinson, eds. 1978. *Forecasting in International Relations: Theory, Methods, Problems, Prospects*. San Francisco: W. H. Freeman

Nazli Choucri with Vincent Ferraro. 1976. *The International Politics of Energy Interdependence*. Lexington, Mass.: D.C. Heath.

Nazli Choucri and Robert C. North. 1975. *Nations in Conflict: National Growth and International Violence*. San Francisco: W.H. Freeman & Co.

Nazli Choucri. 1974. *Population Dynamics and International Violence: Propositions, Insights and Evidence*.
Lexington, Mass.: D.C. Heath/Lexington Books.

Book Ms. **Prepared for Publication**

Nazli Choucri and David D. Clark. *The Co-Evolution Dilemma: International Relations in the Cyber Age*,

Nazli Choucri, David D. Clark and Stuart Madnick, eds. *Explorations in Cyber International
Relations: Theory, Data, Policy*, in ms form

ARTICLES

Including select monographs: - Organized in FOUR research areas and SUB-areas

I. INTERNATIONAL POLITICS – TRANSFORMATION and CHANGE

1.1 Theory and Analysis

Co-author with Anne-Katrin Wickboldt. "Profiles of States as Fuzzy Sets: Methodological Refinement
of Lateral Pressure Theory," *International Interactions* 32, No 2: 153-181. 2006.

"Economic and Political Factors in International Conflict and Integration." *International Studies
Quarterly* 27. 1993.

Co-author with Robert C. North. "Roots of War: The Master Variables," in Raimo Väyrynen, in
collaboration with Dieter Senghaas and Christian Schmidt, eds., *The Quest for Peace: Transcending
Collective Violence and War Among Societies, Cultures and States*, London: International Social Science
Council, Sage Publications, 204-16. 1993.

"Environment and Conflict: New Principles for Environmental Conduct." *Disarmament* XV (1): 67-78.
1992.

"Analytical and Behavioral Perspectives: Causes of War and Strategies for Peace," in W. Scott
Thompson et al., eds., *Approaches to Peace: An Intellectual Map*, Washington, D.C.: United States
Institute of Peace Press, 271-98. 1991.

"Resource Constraints as Causes of Conflict." *Ecodecision* (September), 52-55.1991.

Co-author with Robert C. North. "Lateral Pressure in International Relations: Concept and Theory," in
Manus I. Midlarsky, ed., *Handbook of War Studies*, Winchester, Mass.: Unwin Hyman, Inc., 289-326.
1989.

- "The Reality of Theory: Reflections and Reassessment," in Joseph Kruzel and James Rosenau, eds., *Journeys Through World Politics: Autobiographic Reflections of Distinguished Scholars*, Lexington, Mass.: Lexington Books, 137-51. 1989.
- "Demographics and Conflict." *Bulletin of the Atomic Scientists* 42 (4). 1986.
- "Population, Resources, Technology, and Environment: Trends and Implications," in John Trent and Paul Lamy, eds., *Global Crises and the Social Sciences: North American Perspectives*, Ottawa: University of Ottawa Press/UNESCO. 1984.
- "International Political Economy: A Theoretical Perspective," in Ole R. Holsti, Randolph M. Siverson, and Alexander L. George, eds., *Change in the International System*, Boulder, Colorado: Westview Press. 1980.
- "International Non-Alignment: Quantitative Perspectives on the Afro-Asian Variant," in Michael Haas, ed., *International Systems: A Behavioral Approach*, San Francisco: Chandler Publishing Co., 123-50. 1974.
- "International Conflict Processes: A System View," in *Beitrage zu Einer Ethik des Friedens*, Vienna: Herder, 74-94. 1973.
- Co-author with Robert C. North. "Causes of World War I: A Quantitative Analysis of Longer-Range Dynamics," in Klaus Jurgen Gentzel, Gisela Kress, and Volker Rittberger, eds., *Grossmachtrivalität und Weltkrieg: Sozialwissenschaftliche Studien zum Ausbruch des Ersten Weltkrieges und Historikerkommentare*, Gutersloh: Bertelsmann Universitätsverlag, 122-56. 1972.
- Co-author with Robert C. North. "Dynamics of International Conflict: Some Policy Implications of Population, Resources, and Technology," in Raymond Tanter and Richard Ullman, eds., *Theory and Policy in International Relations*, Princeton: Princeton University Press, 80-122. 1972.
- Co-author with Dennis Meadows. *International Implications of Technological Development and Population Growth: A Simulation Model of International Conflict*. Cambridge, Mass.: Center for International Studies, MIT, 1971.
- Co-author with Robert C. North. "Determinants of International Violence." *Peace Research Society (International) Papers* 12: 33-63. 1969.
- "The Nonalignment of Afro-Asian States." *Canadian Journal of Political Science* 2 (1): 1-17. 1969.
- "The Perceptual Base of Nonalignment." *The Journal of Conflict Resolution* 13 (1): 57-73. 1969.

1.2 Population Dynamics and International Migration

Co-author with Dinsha Mistree. "Globalization, Migration and New Challenges to Governance." *Current History*, 108: 717, 2009, 173-179.

"Demography, Migration, and Security in the Middle East," in Laura Guazzone, ed., *The Middle East in Global Change: The Politics and Economics of Interdependence versus Fragmentation*, New York: St. Martin's Press, Inc., 95-118. 1997.

Co-author with Robert C. North. "Population and (In)Security: National Perspectives and Global Imperatives," in David B. Dewitt, David Haglund, and John Kirton, eds., *Emerging Trends in International Security*, New York: Oxford University Press, 229-56. 1993.

"Business and Reconstruction in the Middle East." *Business & the Contemporary World* 3 (3): 81-88. 1991.

"Resource Scarcity and National Security in the Middle East," in Eric H. Arnett, ed., *New Perspectives for a Changing World Order*, Washington, D.C.: American Association for the Advancement of Science, pp. 100-107. 1991.

"Population and the Global Environment." In J.W. Tesler, D.O. Wood, and N.A. Ferrari (Eds.), *Energy and the Environment in the Twenty First Century*. Cambridge, MA: The MIT Press. 1991.

Co-author with Janet Welsh Brown, and Peter M. Haas. "Dimensions of National Security: the Case of Egypt," in Janet Welsh Brown, ed., *In the U.S. Interest: Resources, Growth, and Security in the Developing World*, Boulder, Colorado: Westview Press, 89-119. 1990.

Impacts and Prospects of Return Migration in the Middle East. Report for the International Labor Office, April 1990. Part 1. Part 2. "Migration in the Middle East: Old Economics or New Politics?" *Journal of Arab Affairs* 7 (1): 1-18. 1988.

"Asians in the Arab World." *Middle Eastern Studies* (April). 1986.

"The Hidden Economy: A New View of Remittances in the Arab World." *World Development* 14 (6): 977-85. 1986.

"Migration to the Middle East," *Middle East Review*. Vol. XIX, No. 2 Winter 1986.

Assessments of Macroeconomic Impacts of Labor Migration and Remittances in Sudan. Cambridge, Mass.: MIT Technology and Development Program Report No. 84-4, July 1984.

Population Movements in the Middle East: An Analysis of Policy Issues. Cambridge, Mass.: MIT Technology and Development Program Report No. 84-5, 1984.

- Co-author with Peter Brecke. "Migration in the Middle East: Transformation and Change" *Middle East Review*; Vol. XVI, No. 2; Winter 1983/1984.
- Asians in the Arab World: Labor Migration and Public Policy. Cambridge, Mass.: MIT Technology Adaptation Program Report No. 83-13, December 1983.
- Co-author with Supriya Lahiri. Macro-Economic Impacts of Remittances in Egypt: An Exploratory Analysis. Cambridge, Mass.: MIT Technology Adaptation Program Report No. 83-10, May 1983.
- Collaboration with Peter Brecke. *Migration in the Middle East: Transformations, Policies, and Processes*, 2 vols. Cambridge, Mass.: MIT Technology Adaptation Program Reports Nos. 83-8, 83-9, 1983. Preface – Chapter 3, Chapter 4 – Chapter 7, Chapter 8 – Chapter 12.
- Population and Conflict: New Dimensions of Population Dynamics*. New York: United Nations Fund for Population Activities. Robert C. North and Nazli Choucri. 1983.
- "The Arab World in the 1980s: Macro-Politics and Economic Change." *Journal of Arab Affairs* 1 (1): 167-87. 1982.
- "The Pervasiveness of Politics: Political Definitions of Population Issues," in *Ethical Issues of Population Aid*, Irvington Publishers, 239-85. 1981.
- "Demographic Changes in the Middle East: New Factors in Regional Politics," in *The Political Economy of the Middle East - Changes Since 1973*, Washington, D.C.: Library of Congress, Congressional Research Service. 1979.
- "Labor Transfers in the Arab World: Growing Interdependence in the Construction Sector" *Organization of Arab Petroleum Exporting Countries*; Vol. 5, No. 1. 1979.
- Co-author with Richard S. Eckaus, and Amr Mohie-Eldine. *Migration and Employment in the Construction Sector: Critical Factors in Egyptian Development*. Cambridge, Mass.: MIT Technology Adaptation Program, October 1978.
- Migration Processes Among Developing Countries: The Middle East*. Cambridge, Mass.: MIT Migration and Development Study Group, C/78-5, May 1978.
- "The Pervasiveness of Politics." *Populi* 5 (33): 30-44. 1978.
- "The New Migration in the Middle East: A Problem for Whom?" *International Migration Review* 11 (4): 421-43. 1977.
- "Political Implications of Population Dynamics: A Critical Assessment." *The Population Debate: Papers of the World Population Conference, Bucharest, 1974*, vol. II, New York: United Nations. 1976.
- Population Dynamics and Local Conflict: A Cross National Study of Population and War: A Summary*. Cambridge, Mass.: MIT Center for International Studies, C/74-9, 1974.

Co-author with Robert C. North. "Population and the International System: Some Implications for the United States Policy and Planning" Commission on Population Growth and the American Future; Research Reports, Vol. 4. 1974.

Co-author with W. Parker Mauldin, Frank W. Notestein, and Michael Teitelbaum. A Report on Bucharest: The World Population Conference and the Population Tribune, August 1974. A publication of the Population Council, Studies in Family Planning, December 1974.

"Population Dynamics and Social Inquiry: Some Methodological Imperatives," in Richard L. Clinton, ed., *Population and Politics*, Lexington, Mass.: Lexington Books. 1973.

Co-author with Robert C. North. "Population and the Future International System." *Journal of International Affairs* 25 (2): 224-37. 1971.

1.3 Energy and Resources

Co-author with Daniel Goldsmith and Toufic Mezher. "Modeling Renewable Energy Readiness: The UAE Context," *Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE)*, 2011 20th IEEE International Workshops, June 2011: 27-9.

Co-author with Toufic Mezher and Daniel Goldsmith. "Renewable Energy in Abu Dhabi: Opportunities and Challenges," *Journal of Energy Engineering* 137(4): 169-177. 2011.

"Environmentalism in Comparative Politics," in Joel Krieger, ed., *Oxford Companion to International Politics*, Oxford, England: Oxford University Press. In press.

"Environmentalism in International Relations," in Joel Krieger, ed., *Oxford Companion to International Politics*, Oxford, England: Oxford University Press. In press.

Environmental Flashpoints in the Middle East and North Africa. Report for the Environmental Flashpoints Workshop, November 1997.

"World Energy: Implications for Japan" Toray Corporate Business Research Inc. Vol. 2; No. 2; Spring. 1990.

Co-author with M. Zaki Shafei "Energy Policy in Egypt" Extrait de l'Egypte Contemporaine LXXVeme Annee; No. 395, January. 1984.

"Energy for Survival and Development" Pontificiae Academiae Scientiarum Scripta Varia. Edited by Carlos Chagas and Umberto Colombo. June 11-14. 19

- "Energy and Development in Latin America." *Latin America and Caribbean Contemporary Record*, vol. II. 1983.
- "Energy and Development: Understanding the Risks" The MIT Report September, Vol. XI; No. 9. 1983.
- "Energy and Transportation in Latin America: The Socio-economic Basis," in *The Impact of Energy Costs on Transportation in Latin America*, Inter-American Development Bank, November 1982.
- "OPEC: Calming a Nervous World Oil Market." *Technology Review* 83 (1): 35-36. 1980.
- "Power and Politics in World Oil." *Technology Review* 85 (7): 24-36. 1980.
- "Analytical Specifications of the World Oil Market: A Review and Comparison of 12 Models." *Journal of Conflict Resolution* 23 (2): 346-72. 1979.
- "...and OPEC is justified," *The Christian Science Monitor*, November 30, 1979, pg. 23.
- Co-author with Vincent Ferraro. "International Exchanges of Alternative Energy Sources: Technology, Price, and Management," in Dennis Clark Pirages, ed., *The Sustainable Society*, New York: Praeger Publishers, pp. 74-102. 1977.
- Energy Interdependence. Volume II of *Analyzing Global Interdependence*, by Hayward R. Alker, Jr., Lincoln P. Bloomfield, Nazli Choucri. Cambridge, Mass.: MIT Center for International Studies C/74-28, 1974.
- With the research assistance of James P. Bennett. "Population, Resources, Technology: Political Implications of the Environmental Crisis," in David A. Kay and Eugene B. Skolnikoff, eds., *World Eco-Crisis: International Organizations in Response*, Madison: University of Wisconsin Press, 9-46. 1972.

1.4 Technology and Politics

- "Megacities and Global Accord." Fred Moavenzadeh, Keisuke Hanaki and Peter Baccini, Dordrecht (Eds.), In *Future Cities: Dynamics and Sustainability*. (pp. 215-225). The Netherlands: Kluwer Academic Publishers. 2002.
- "Strategic Partnerships with Multilingual Functionality for Globalisation and Localisation," Prepared for European Commission Directorate-General Information Society Workshop on "*Sustainability and E-nvironment*," Publication of IST99 Conference in Helsinki, November 1999, Finland. 1999.
- "Knowledge Networking for Technology 'Leapfrogging'," *UNDP Cooperation South*, Number Two, 1998, pp. 40-52. 1998.

- "Globalization of Eco-Efficiency: GSSD on the WWW." *UNEP Industry and Environment*, October-December 1995, pp. 45-49. 1995.
- "Globalization of MIT: GSSD on the WWW" MIT Faculty Newsletter. October, Vol. VIII, No. 1. 1995.
- "Introduction." *Business & the Contemporary World*, Special Issue: Global Environmental Accords: Implications for Technology, Industry and International Relations. vol. VI (2): 6-8. 1994.
- "The Politics of Global Environmental Change: A Conceptual Framework," in United Nations, Advanced Technology Assessment System, *Environmentally Sound Technology for Sustainable Development*, New York: United Nations Publications, pp. 230-34. 1992.
- "A Partnership with Nature: Construction Consortium for the Global Environment." *Construction Business Review* 1 (2): 37-41. 1991.
- "The Global Environment and Multinational Corporations." *Technology Review* 94 (3): 52-9. 1991.
- "The Politicization of Technology Choices." *Business & the Contemporary World*, vol. II (1). 1989.
- Co-author with Richard S. Eckaus. "Interactions of Economic and Political Change: The Egyptian Case." *World Development* 7: 783-97. 1979.

II. QUANTITATIVE ANALYSIS – PARAMETER ESTIMATION, SIMULATION and MODELING

- Co-author with Ed Anderson, Daniel Goldsmith, Stuart E. Madnick, Michael Siegel, and Dan Sturtevant. *System Dynamics Modeling for Pro-Active Intelligence*, A publication of the Air Force Research Laboratory, January 2010
- Co-Author with Jean Francois Mascari "Higher Education, Research and Innovation – Global Social Sustainable Development. (GSSD) Perspective, in *Forum on Higher Education Research and Knowledge* (Paris: UNESCO), 2010.
- "Legacies of the 20th Century and Knowledge Imperatives for the 21st Century", in *Forum on Higher Education Research and Knowledge* (Paris: UNESCO), 2009
- Co-author with Farnaz Haghseta. "Organizational Innovation: Global Workflow and Institutional e-Networking," In Dinsha Mistree, Farnaz Haghseta, Toufic Mezher, Wallace R. Baker and Carlos I. Ortiz, eds. *Mapping Sustainability: Knowledge e-Networking and the Value Chain*. Dordrecht, The Netherlands: Springer. 2007.
- "The Politics of Knowledge Management," A publication for The UNESCO Forum on Higher Education, Research and Knowledge, 2007.
- May 2015

- Co-author with, Christopher Heye, and Michael Lynch.. "Analyzing Oil Production in Developing Countries: A Case Study of Egypt." *The Energy Journal* 11 (3). 1990.
- Co-author with Christopher Heye. "Simulation Models." *Energy* 15 (3/4): 363-78. 1990.
- "Domestic Energy Pricing: Trends and Implications for the Arab World." *The Journal of Energy and Development* 11 (1). 1986.
- Co-author with Supriya Lahiri. "Short-Run Energy-Economy Interactions in Egypt." *World Development* 12 (8): 789-820. 1984.
- Co-author with M. Zaki Shafei, and with the collaboration of the Egyptian General Petroleum Corporation, the Ministry of Planning, and the Ministry of Petroleum. The Energy Policy Project: Petroleum and Natural Gas in Egypt. Cambridge, Mass.: MIT Technology Adaptation Program Report No. 83-11, June 1983.
- "International Changes in the World Oil Market: A Simulation Perspective" International Political Science Review Sage Publications Inc. Beverly Hills, CA. Vol. 3, No. 4; pp. 378-403. 1982.
- "The International Petroleum Exchange Model: Reference Results and Validation" The International Petroleum Exchange Model. Futures; June. 1980.
- Chapters in co-edited volume, *Forecasting in International Relations: Theory, Methods, Problems, Prospects*, San Francisco: W. H. Freeman. 1978. Author of following chapters:
- Chapter 1: "Key Issues in International Relations Forecasting"
 Chapter 12: "Applications of Econometric Analysis to Forecasting in International Relations"
 Chapter 13: "System Dynamics Forecasting in International Relations"
 Chapter 21: "Alternative Futures: An Exercise in Forecasting" (with Marie Bousfield)
- "An Assessment of Documentation Standards for Ten Computer Models of Political Problems," in *New Trends in Mathematical Modelling*, Wroclaw, Poland: Ossolineum, 1978, pp. 331-43. 1978.
- "From Correlation Analysis to Computer Forecasting: The Evolution of a Research Programme in International Relations," in James N. Rosenau, ed., *In Search of Global Patterns*, New York: The Free Press, 81-90. 1976.
- Co-author with David Scott Ross, and Dennis Meadows. "Toward a Forecasting Model of Energy Politics." *Journal of Peace Science* 1 (2): 97-111. 1976."Forecasting Sources of Foreign Expansion: An Inquiry into Alternative Futures," in Mario Bunge, Johan Galtung, and Mircea Malitza, eds., *Mathematical Approaches to International Relations*, Vol. 2, Bucharest: Romanian Academy of Social and Political Sciences. 1975.
- "Forecasting in International Relations: Problems and Prospects." *International Interactions* 1: 63-86. 1974.

"Applications of Economic Analysis to Forecasting in International Relations." *Peace Science Society (International) Papers* 21: 15-38. 1973.

Co-author with Michael Laird, and Dennis Meadows. *Resource Scarcity and Foreign Policy: A Simulation Model of International Conflict*. Cambridge, Mass.: MIT Center for International Studies, C/72-9, March 1972. Collaboration with Robert C. North.

"In Search of Peace Systems: Scandinavia and the Netherlands, 1870-1970," in Bruce Russett, ed., *Peace, War, and Numbers*, Berkeley: Sage Publications, 239-74. 1972

Co-author with Robert C. North. "Background Conditions to the Outbreak of the First World War." *Peace Research Society (International) Papers* IX: 33-63. 1969.

III. SUSTAINABILITY, ENVIRONMENT and GLOBAL ACCORD

Co-Author with Dinsha Mistree "Globalization, Migration, and New Challenges to Governance". *Current History*, (Vol. 108, No. 717, pp. 173-179. 2009

"The Political Logic of Sustainability," in Egon Becker and Thomas Jahn, eds., *Sustainability and the Social Sciences*. New York: Zed Books. 1999.

Co-author with Annababette Wils and Matilde Kamiya. "Threats to Sustainability: Simulating Conflict Between Nations," *System Dynamics Review* 12, No. 2-3: 129-162. 1998.

Co-author with Rebecca Berry. "Sustainability and Diversity of Development: Toward a Generic Model." *Proceedings, The 1995 International System Dynamics Conference*, July, Tokyo, Japan. 1995.

"Corporate Strategies toward Sustainability," in Winfried Lang, ed., *Sustainable Development and International Law*, Boston: Graham & Trotman/Martinus Nijhoff, pp. 189-201. 1994.

"Moving Forward: Priorities and Practicalities." *Business & the Contemporary World*, Special Issue: Global Environmental Accords: Implications for Technology, Industry and International Relations VI (2): 134-5. 1994.

"Environmentalism," in J. Krieger, ed., *Oxford Companion to Politics of the World*, New York: Oxford University Press. 1993.

"Introduction: International Political Economy and the Global Environment" *International Political Science Review* Vol. 14, No. 1; pp. 5-6. 1993.

Ed. Chapters in edited volume, *Global Accord: Environmental Challenges and International Responses*, Cambridge, Mass.: MIT Press. 1993. Author of the following chapters:

Chapter 1: "Introduction: Theoretical, Empirical, and Policy Perspectives"

Chapter 3: "Growth, Development, and Environmental Sustainability: Profile and Paradox"
(with Robert C. North)

Chapter 6: "Multinational Corporations and the Global Environment"

Chapter 15: "Global Accord: Imperatives for the Twenty-first Century" (with Robert C. North)

"Political Economy of the Global Environment." *International Political Science Review* 14 (1): 103-16. 1993.

"Environment and Conflict: New Principles for Environmental Conduct." *Disarmament* XV (1): 67-78.
1992.

"Environment, Development, and International Assistance: Crucial Linkages," in Sheryl J. Brown and
Kimber M. Schraub, eds., *Resolving Third World Conflict: Challenges for a New Era*, Washington, D.C.:
United States Institute of Peace Press, pp. 91-117. 1992.

"Le Changement Mondial et ses Implications pour la Recherche Interdisciplinaire," in Eduardo
Portella, ed., *Entre Savoirs: L'interdisciplinarite en acte: en jeux, obstacles, perspectives*, Toulouse:
Editions Eres. 1992.

"Consequences of War in the Middle East" *TBR Intelligence*, Vol. 3, No. 2. 1991.

"Comments on Scientific Forecasts in International Relations" *International Studies Quarterly*.
Vol. 25; No. 1, March; pp. 145-149. 1979.

IV. CYBERPOLITICS and CYBERSPACE

Co Author with Atin BASuchoudhary, "The Evolution of Network Based Cybersecurity Norms: An
Analytical Narrative", *IEEE IRI*, 2014

Co-author with Chintan Vaishnav and David D. Clark. "Cyber International Relations as an Integrated
System." *Environment, Systems and Decision*, 2013.

Co-author with Stuart Madnick and Jeremy Ferwerda. "Institutional Foundations for Cyber Security:
Current Responses and New Challenges." *Information Technology for Development*, October 2013.

Co-author with David D. Clark. "Who Controls Cyberspace?" *Bulletin of Atomic Scientists*, 69 (5): pp. 21-
31, September/October 2013.

"Cyberpolitics in International Relations." *precis*, MIT Center for International Studies. Spring 2013.

Co-author with Michael Sechrist, Chintan Vaishnav, Daniel Goldsmith. "The Dynamics of Undersea
Cables: Emerging Opportunities and Pitfalls." *Proceedings of the 30th International Conference of the
System Dynamics Society*, eds. Elke Husemann and David Lane. St. Gallen, Switzerland. July 22-26,
2012.

- Co-author with Stuart Madnick, Steven Camiña and Wei Lee Woon. "Towards Better Understanding Cybersecurity: or are "Cyberspace" and "Cyber Space" the same?" 2012. *pre-ICIS workshop on Information Security and Privacy (SIGSEC)*. Paper 27.
- "Cyberpolitics in International Relations," in Joel Krieger, ed., *Oxford Companion to International Politics*, Oxford, England: Oxford University Press. 2012.
- "The Convergence of Cyberspace and Sustainability." *e-International Relations*. April 20, 2012. <http://www.e-ir.info/2012/04/20/the-convergence-of-cyberspace-and-sustainability/>.
- Co-author with Daniel Goldsmith. "Lost in Cyberspace: Harnessing the Internet, International Relations and Global Security." *Bulletin of the Atomic Scientists*. 2012. 68 (2): 70-77.
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