

## Publication List

(State of Febr. 2009)

### A Patents

- [1] J. Ackermann, “Verfahren zum Lenken von Straßenfahrzeugen mit Vorder- und Hinterradlenkung. (Method of steering road vehicles having front-wheel and rear-wheel steering).” German Patent P 4028 320, European Patent 0474 130, US Patent 5 375 057, Japan Patent 3158 347 (Priority Sept. 6, 1990).
- [2] J. Ackermann, “Verfahren zum Lenken von Straßenfahrzeugen mit Vorder- und Hinterradlenkung.” German Patent 4206654, European Patent 0559 114, US Patent 5 515 275 (Priority March 3, 1992).
- [3] J. Ackermann, “Verfahren zum Lenken von Straßenfahrzeugen mit Vorderradlenkung.” German Patent 4307420, European Patent 0614 795, US Patent 5 428 536, Japanese Patent 2704 602 (Priority March 9, 1993).
- [4] J. Ackermann, “Verfahren zur Lenkunterstützung eines Fahrers eines Straßenfahrzeugs.” German Patent 19650691, European Patent 0846610, US Patent 5925083 (Priority Dec. 7, 1996).
- [5] J. Ackermann, T. Bünte, J. Dietrich, B. Gombert, B. Willberg, “Aktuator zum Korrigieren eines über das Lenkrad an die Räder einer gelenkten Fahrzeugachse eingegebenen Lenkwinkels”, German Patent 19750585, European Patent 0916568 (Priority Nov. 17, 1997).
- [6] J. Ackermann, “Verfahren zur Vorgabe einer gewünschten geschwindigkeits - abhängigen Gierdämpfung bei der Fahrzeuglenkung (Method of assignment of a desired velocity-dependent yaw damping for vehicle steering).” German Patent Application 10206730.9 (Priority Feb. 18, 2002).

### B Books

- [7] J. Ackermann, *Abtastregelung / Sampled-data Control Systems*, Springer-Verlag. 3 German editions (1972, 1983, 1988), English (1985), Polish (1976), Chinese (1991).
- [8] J. Ackermann (editor), *Uncertainty and Control*, Springer Lecture Notes in Control and Information Science, 1985.
- [9] J. Ackermann, A. Bartlett, D. Kaesbauer, W. Sienel, and R. Steinhauser, *Robuste Regelung / Robust Control*, Springer-Verlag, German (1993), English (1993).

- [10] J. Ackermann, P. Blue, T. Bünte, L. Güvenc, D. Kaesbauer, M. Kordt, M. Muhler and D. Odenthal, *Robust Control: The Parameter Space Approach*, Springer-Verlag, London 2002.

## C Plenary and Keynote Lectures

- [11] J. Ackermann, “Design of robust controllers by multi-model methods,” *International Symposium on the Mathematical Theory of Networks and Systems*, Stockholm, Sweden, 1985.
- [12] J. Ackermann, “Robustness issues in practical control system design problems”, *MacKay Lecture Series*, University of California, Berkeley 1990.
- [13] J. Ackermann, “Design by Search: CAD for dynamics and robust control design”, *The Annual Harry Lynde Bradley Distinguished Lecture in Electrical Engineering*, Virginia Polytechnic Institute, 1990.
- [14] J. Ackermann, “Uncertainty structures and robust stability analysis”, *First European Control Conference*, Grenoble, France, 1991.
- [15] J. Ackermann, “Problems of individual transportation: From a two-mass model to a one-mass model of car steering,” *International Symposium on the Mathematical Theory of Networks and Systems*, Regensburg, Germany, 1993.
- [16] J. Ackermann, “Robust control for four-wheel steering cars”, *International Conference on Control Theory and its Applications*, Kibbutz Maale HaChamisha, Israel, 1993.
- [17] J. Ackermann, “Vehicle dynamics - an overview”, *Proc. IFAC Workshop on Advances in Automotive Control*, Ascona, Switzerland, 1995.
- [18] J. Ackermann, “Safe and comfortable travel by robust control”, *Third European Control Conference*, Rome, Italy, 1995.
- [19] J. Ackermann, “Safer car driving by robust steering control”, *IEE International Conference on Control '96*, Exeter, UK, 1996.
- [20] J. Ackermann, “Robust control prevents car skidding”, Bode Lecture, *IEEE Conference on Decision and Control*, Kobe, Japan, 1996.
- [21] J. Ackermann, “Safe car driving by robust steering control”, *Midwest Control Symposium at Ohio State University*, Columbus, 1996.
- [22] J. Ackermann, “Robust control supports drivers and pilots”, *8th Annual Zaborsky Lecture Series*, Washington University, St. Louis, 1997.
- [23] J. Ackermann, “Active Steering for Better Safety, Handling and Comfort”, *Proc. IEEE-INRIA Conference on Advances in Vehicle Control and Safety*, Amiens, France, July 1998.

- [24] J. Ackermann, “Die Schrecksekunde: Regelung kann helfen”, *34. Regelungstechnisches Kolloquium*, Boppard, February 2000.
- [25] J. Ackermann, “The human reaction time - what can control do to overcome it?” *Keynote lecture at “25 years of nonlinear control at Ecole des Mines de Paris”*, March 2001.
- [26] J. Ackermann, “The human reaction time: What can control do to overcome it?” *6th Biennial Conference on Engineering Systems Design and Analysis*, Istanbul, July 2002.

## D Publications

- [27] J. Ackermann, “Über die Prüfung der Stabilität von Abtast-Regelungen mittels der Beschreibungsfunktion,” *Regelungstechnik*, vol. 9, pp. 467–471, 1961.
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## E Seminars

- July 67    TU Berlin
- Oct 68    IFAC Sympos. Düsseldorf
- March 69   Oberwolfach
- Oct 69    Philips, Hamburg
- Jan 70    AEG, Frankfurt
- Oct 70    Oberwolfach
- May 71    TH Darmstadt
- Jan 72    U. Illinois, Urbana-Champaign  
           U. Minnesota, Minneapolis  
           Case Western U., Cleveland  
           Kalman-Conference, Florida  
           U. Florida
- March 72   Oberwolfach
- May 72    Cybernetics Meeting, Vienna
- June 72    TH Graz

23.02.73	VDI/VDE Frankfurt
10.04.73	TU Belgrade
14.04.73	U. Bremen
29.05.73	Ruhr - U. Bochum
20.06.73	IFAC-Symp. Ischia
25.06.73	U. Sapienzia Rome
30.01.74	TU München
18. - 22.01.74	Cordoba, Argentinia
16.05.74	Technion, Haifa
26.06.74	TU München
22.07.74	MBB Ottobrunn
05.09.74	Akademie - Inst. Moskow
18.02.75	VDI/VDE Frankfurt
16.06.75	U. Bremen
24.07.75	MBB Ottobrunn
14.08.75	Int. Conf. System Theory, Minnesota
18.08.75	U. Illinois, Urbana-Champaign
20.08.75	Notre Dame U., South Bend
22.08.75	Yale U.
28.08.75	IFAC Congress, Boston
26.09.75	MBB Ottobrunn
19.12.75	RWTH Aachen
14.04.76	Krauss-Maffei, München
13.05.76	U. Bremen
18.05.76	IFAC-Sympos. Tegernsee
16.06.76	IFAC-Sympos. Udine
11.10.76	TU Berlin
12.10.76	RWTH Aachen
05.11.76	MBB Ottobrunn
14.02.77	VDI/VDE Frankfurt
11.03.77	TU Wien
22.06.77	JACC, San Francisco
05.07.77	IFAC-Sympos. Fredericton
08.03.78	Oberwolfach
14.06.78	IFAC Congress, Helsinki
04.10.78	Allerton Conf., Illinois
13.12.78	Washington U., St. Louis
14.12.78	Mc Donnell - Douglas, St. Louis

11.01.79	CDC San Diego
10.04.79	Case Western, Cleveland
12.04.79	U. Toronto
17.04.79	U. Washington, Seattle
18.04.79	Boeing, Seattle
26.04.79	MIT, Boston
30.04.79	Yale U.
02.05.79	Brown U.
03.05.79	Drexel U.
04.05.79	NASA Langley
09.05.79	U. Illinois, Urbana-Champaign
18.05.79	UMASS, Amherst
19.06.79	JACC, Denver
20.07.79	U. Ann Arbor
22.11.79	DLR Braunschweig
Jan 80	Caracas, Venezuela
12.03.80	Oberwolfach
05. - 07.05.80	U. Bremen
08.05.80	TU Hamburg-Harburg
22.05.80	U. Paderborn
23.05.80	U. Dortmund
30.09.80	Interlaken
13.10.80	AGARD Athen
16.10.80	AGARD Rom
21.10.80	AGARD London
22.10.80	U. Cambridge
05.01.81	TU Hamburg-Harburg
22.05.81	20 J. CCG, Heidelberg
02.06.81	U/GH Duisburg
24.07.81	Sympos. Lin. Systems, Bielefeld
26.08.81	IFAC Congress Kyoto
01.09.81	U. Tokio
29.09.81	Interlaken
26.10. - 12.11.81	Beijing, Xian
23.07.81	U. Siegen
17.12.81	ETH Zürich
21.01.82	MBB, Ottobrunn
05.02.82	U. Würzburg
04.03.82	Oberwolfach
24.05.82	U. Saarbrücken
12.07.82	Daimler-Benz
05.10.82	Interlaken

11.10.82	U. Paderborn
30.11.82	Notre Dame U., South Bend
01.12.82	Purdue U., Lafayette
02.12.82	Washington U., St. Louis
03.12.82	U. Illinois, Urbana-Champaign
09.12.82	CDC Orlando
01.06.83	ETH Zürich
26.09.83	GMR, Langen
04.10.83	Interlaken
20.02.84	TH Ilmenau
22.02.84	TU Dresden
07.03.84	Oberwolfach
29.06.84	Pre-IFAC, Cavtat
05.07.84	IFAC Congress, Budapest
02.10.84	Interlaken
12. - 14.11.84	Bosch-Kolleg, Schwieberdingen
04. - 05.03.85	ANU Canberra
11. - 13.03.85	ANU Canberra
20.03.85	ANU Canberra
15.04.85	U. Newcastle
12.06.85	MTNS Stockholm
17.06.85	IFAC Workshop, Boston
20.06.85	ACC Boston
21.06.85	Rensselaer U., Troy
24.09.85	MAN, München
01.10.85	Interlaken
23.10.85	TH Ilmenau
05.03.86	Oberwolfach
07.04.86	U. Manchester
08.04.86	U. Cambridge
30.09.86	GMR Langen
11.12.86	CDC Athen
22.01.87	Benelux Conf.
01.04.87	Technion, Haifa
20.07.87	IFAC Working Group, Tegernsee
28.07.87	IFAC Congress, München
06.10.87	Interlaken
23.03.88	Oberwolfach
13.04.88	ERNO Bremen
01.06.88	IFAC-Sympos. Zürich

11.06.88	Robust Control Workshop, Turin
29.09.88	Interlaken
28.10.88	TH Ilmenau
31.10.88	Akademie, Berlin
02.11.88	U. Magdeburg
01.12.88	UC Irvine
03.12.88	UC Santa Barbara
05.12.88	CDC, Austin
05.04.89	ICCON, Jerusalem
20. - 22.04.89	MBB, Ottobrunn
27. - 29.04.89	MBB, Hamburg
13.06.89	Robustness Workshop, Bremen
20.06.89	MTNS Amsterdam
01.08.89	U. Wisconsin, Madison
11.10.89	UC Irvine
30.10.89	UC Irvine
03.11.89	Texas A&M, College Station
08.11.89	USC, Los Angeles
29.11.89	UC Irvine
14.12.89	CDC, Tampa
07.02.90	UCLA
12.03.90	UC Irvine
16.03.90	Caltech, Los Angeles
02. - 05.04.90	3 McKay Lectures UC Berkeley
09.04.90	UC Berkeley
17.04.90	U. Maryland
19.04.90	Virginia Polytechnic
20.04.90	UMASS, Amherst
26.04.90	U. Santa Clara
03.05.90	Stanford U.
04.05.90	Integrated Systems, Palo Alto
24.05.90	ACC, San Diego
15.08.90	IFAC Congress, Tallin
02.10.90	Interlaken
06.12.90	CDC, Honolulu
10.01.91	Bosch, Stuttgart
14.01.91	BMW München
14.03.91	Robustness Workshop, San Antonio
13.05.91	U. St. Petersburg
16.05.91	U. Kiev
21.05.91	Academy Inst., Moscow

27.05.91	BUAA, Beijing
28.05.91	Beijing U.
16.06.91	U. Lyngby
02. + 04.07.91	ECC Grenoble
05.09.91	IFAC Sympos. Design, Zürich
10.09.91	IFAC Robust Control Workshop, Kappel/Albis
01.10.91	Airbus, Hamburg
03.12.91	HdT, Essen
18.03.92	Oberwolfach
14.04.92	Robustness Workshop, Ascona
01.06.92	IIASA Laxenburg/Vienna
25.06.92	ACC, Chicago
27.06.92	Jury-Sympos., Chicago
12.08.92	BMW, München
17.12.92	CDC, Tuscon
19.12.92	UC Santa Barbara
13. + 15.03.93	KTH Stockholm
17.05.93	U. Turin
18.05.93	FIAT
07.06.93	U. Rostock
30.06.93	ECC Groningen
15.07.93	IFAC Workshop, Cairns
19.07.93	IFAC Congress, Sydney
28.07.93	BMW, München
04.08.93	MTNS, Regensburg
20.10.93	Robustness Workshop, Jerusalem
09.02.94	EURACO, Twente
23.03.94	Oberwolfach
27.04.94	U/GH, Kassel
17.05.94	MAN, München
15.06.94	Daimler-Benz
30.06.94	ACC, Baltimore
30.08.94	Young Researcher Week, Dublin
26.10.94	AVEC, Tsukuba
31.10.94	Toyota
02.11.94	U. Tokio
15.03.95	Vehicle Control Workshop, Ascona
12.07.95	IEEE Medit. Conf., Cyprus
05.09.95	ECC, Rome
07.09.95	COSY Workshop, Rome
12.09.95	EURACO, Florence
09.10.95	IFAC Motion Control, München

09. + 10.04.96 Wright-Patterson  
 11.04.96 Ohio State U.  
 15. + 16.04.96 UC Santa Barbara  
 17.04.96 UC San Diego  
 15.05.96 Bosch, Stuttgart  
 23.05.96 TU Hamburg-Harburg  
 11.06.96 IEEE Medit. Conf., Crete  
 27.06.96 AVEC, Aachen  
 02.07.96 IFAC Congress, San Francisco  
 12.07.96 PATH, Richmond  
 04.09.96 IEE Conf., Exeter  
 17.10.96 EURACO, Herrsching  
 27.11.96 Oberwolfach  
 13.12.96 CDC, Kobe  
  
 18.01.97 COSY, Zürich  
 18.02.97 U. Bundeswehr, Neubiberg  
 21.03.97 KTH, Stockholm  
 25.03.97 GAMM, Regensburg  
 05. - 07.05.97 Washington U., St. Louis  
 26.06.97 ROCOND, Budapest  
 30.06.97 COSY, Brussels  
 02.07.97 ECC, Brussels  
 09.07.97 Airbus, Hamburg  
 22.07.97 TRW, Düsseldorf  
 12. + 13.08.97 Airbus, Hamburg  
 26.08.97 Porsche, Weissach  
 07.10.97 ZF, Friedrichshafen  
 17.10.97 TU Dresden  
 15.12.97 Audi, Ingoldstadt  
 14.01.98 BMW, München  
 06.03.98 VW, Wolfsburg  
 17.06.98 Kröll 60 Jahre, Köln  
 25.06.98 ACC, Philadelphia  
 29.06.98 Davison Coll., Toronto  
 01. - 03.07.98 Vehicle Control, Amiens  
 01.08.98 Robust Control Workshop, Siena  
 09.10.98 COSY, Ohrid  
  
 14.01.99 DASA, Hamburg  
 24.03.99 Oberwolfach  
 26.04.99 ZF, Schwäbisch-Gmünd  
 20.05.99 UC Davis  
 28.05.99 UC Santa Barbara  
 03.06.99 ACC, San Diego

06.06.99 Automotive Workshop, Santa Barbara  
01.09.99 ECC, Karlsruhe  
07.09.99 MAN, München  
  
14.01.00 Philip Morris Stiftung, München  
17.02.00 Regelungst. Koll. Boppard  
29.02.00 PSA, Paris  
12.05.00 TU München  
22.06.00 ROCOND, Prag  
  
29.01.01 TU Hannover  
01.03.01 Porsche, Weissach  
26.06.01 ACC, Arlington  
05.09.01 ECC, Porto  
  
28.02.02 Oberwolfach  
24.05.02 Lausanne  
10.07.02 ESDA, Istanbul  
11.07.02 ASME, Istanbul  
10.09.02 Grenoble Summer School  
  
18.04.03 Peking University  
18.04.03 Beijing University of Aeronautics and Astronautics  
22.04.03 Central South University, Changsha, Hunan  
29.09.03 University of Pretoria  
  
03.06.04 Rom  
  
03.05.06 RWTH Aachen