

## ICAR 2003 Program at a Glance

**Sunday 29 - June - 2003**

<b>ISR</b>	
9.00 - 10.40	<b>Tutorial on <i>Multisensor Information Fusion</i></b>
10.40-11.00	Coffee Break
11.00 - 12.30	<b>Tutorial on <i>Multisensor Information Fusion</i></b>
12.30-14.00	Lunch
14.00 - 15.20	<b>Tutorial on <i>Multisensor Information Fusion</i></b>
15.20 - 15.40	Coffee Break
15.40-16.00	Coffee Break
16.00 - 17.30	<b>Tutorial on <i>Multisensor Information Fusion</i></b>
17.30 - 19.15	<b>Workshop on <i>Integration of Vision and Inertial Sensors</i></b>

**Monday 30 - June - 2003**

	<b>Auditorium</b>	<b>Amphitheater C.4</b>	<b>Room C.1</b>	<b>Room C.2</b>	<b>Room C.3</b>	<b>Room E.1</b>
8.00 - 9.00	Registration					
9.00-10.30	<b>Opening Ceremony</b> Plenary Lecture 1: <b>Paolo Dario - <i>Perspectives of Biomedical Robotics</i></b>					
10.30-10.50	Coffee Break					
10.50-12.30	MI-1 Biomedical Robotics 1	MI-2 Mobile Robots 1	MI-3 Sensor Systems and Sensor Fusion	MI-4 Telerobotics 1	MI-5 Localization 1	MI-6 Soft Computing
12.30-13.50	Lunch					
13.50-15.10	MII-1 Biomedical Robotics 2	MII-2 Mobile Robots 2	MII-3 Sensor Based Planning	MII-4 Fractional Derivatives in Mechatronics and Robotics 1	MII-5 Localization 2	MII-6 Learning 1
15.10-15.30	Coffee Break					
15.30-16.50	MIII-1 Networked and Cooperative Rob. 1	MIII-2 Vision 1	MIII-3 Olfaction-Based Mobile Robot Navigation 1	MIII-4 Fractional Derivatives in Mechatronics and Robotics 2	MIII-5 Localization 3	MIII-6 Learning 2
16.50-17.00	Technical Break					
17.00-18.00	MIV-1 Networked and Cooperative Rob. 2	MIV-2 Obstacle Avoidance	MIV-3 Olfaction-Based Mobile Robot Navigation 2	MIV-4 Telerobotics 2	MIV-5 Demining Robotics	MIV-6 Kinematics 1
18.00-19.30	<b>Visits, Exhibitions &amp; Demos</b>					
19.45	<i>Welcome Reception</i>					

**Tuesday 01 - July - 2003**

	<b>Auditorium</b>	<b>Amphitheater C.4</b>	<b>Room C.1</b>	<b>Room C.2</b>	<b>Room C.3</b>	<b>Room E.1</b>
8.30-9.30	<b>Plenary Lecture 2: Kazuo Tanie - A New trend of Current Robotics Technology and the Possibility of New Robotics Business</b>					
9.30-9.35	Technical Break					
9.35-10.55	TI-1 Biologically-Inspired/ Humanoid Robotics 1	TI-2 Mobile Robots 3	TI-3 Robotic Applications	TI-4 Humans and Robots 1	TI-5 Motion Planning	TI-6 Multirobot Systems 1
10.55-11.15	Coffee Break					
11.15-12.35	TII-1 Biologically-Inspired/ Humanoid Robotics 2	TII-2 Mobile Robots 4	TII-3 Control 1	TII-4 Humans and Robots 2	TII-5 Vision-Based Navigation	TII-6 Multirobot Systems 2
12.35-13.50	Lunch					
13.50-15.30	TIII-1 Mobile Robots 5	TIII-2 Medical/Biomedical Robotics	TIII-3 Control 2	TIII-4 Humans and Robots 3	TIII-5 Vision 2	TIII-6 Walking Robots
15.30-15.50	Coffee Break					
15.50-17.30	TIV-1 Mobile Robots 6	TIV-2 Rehabilitation Robotics	TIV-3 Multiple Robots in Dynamic Environments	TIV-4 Mobile Robots and Sensors	TIV-5 Vision 3	TIV-6 Compliant Motion Control
17.30-19.00	<b>Visits, Exhibitions &amp; Demos</b>					

**Wednesday 02 - July - 2003**

	<b>Auditorium</b>	<b>Amphitheater C.4</b>	<b>Room C.1</b>	<b>Room C.2</b>	<b>Room C.3</b>	<b>Room E.1</b>
8.15-9.00	<b>Plenary Lecture 3: Antonio Pascoal - Marine Robots: from theory to practice</b>					
9.00-9.05	Technical Break					
9.05-10.45	WI-1 Space and Aerial Robotics	WI-2 Robots and Art	WI-3 Mobile Robots 7	WI-4 Intelligent Vehicles	WI-5 Grasping and Hand Design	WI-6 Adaptive Control 1
10.45-11.05	Coffee Break					
11.05-12.25	WII-1 Biomorphic Robotics	WII-2 Robotic Information Fusion 1	WII-3 Haptic Interfaces 1	WII-4 Robotics Technologies for Intelligent Vehicles 1	WII-5 Cooperative Robotics	WII-6 Adaptive Control 2
12.25-13.50	Lunch					
13.50-15.10	WIII-1 Robotics Technologies for Intelligent Vehicles 2	WIII-2 Robotic Information Fusion 2	WIII-3 Haptic Interfaces 2	WIII-4 Biologically-Inspired/ Humanoid Robotics 3	WIII-5 Path Planning & Non- Holonomic Systems	WIII-6 Fuzzy Control
15.10-15.30	Coffee Break					
15.30-17.10	WIV-1 Robotics Technologies for Intelligent Vehicles 3	WIV-2 Mobile Robots 8	WIV-3 Multi-Legged Robots	WIV-4 Parallel Manipulators	WIV-5 Applications and Task Planning	WIV-6 Kinematics 2
17.10-17.15	Technical Break					
17.15-18.15	<b>Plenary Lecture 4: Michel Parent - Cybercars : the future of road transport?</b>					
	<b>Closing Session</b>					
18.15-19.30	<b>Exhibition &amp; Demos</b>					
20.00	Gala Dinner					

## ICAR 2003 Sessions

Sessions		Papers				
Adaptive Control	1	382	130	108	218	257
	2	292	309	332	15	
Applications and Task Planning		119	34	147	32	70
Biologically-Inspired/Humanoid Robotics	1	133	157	169	238	
	2	211	230	226	88	
	3	341	145	220	357	
Biomedical Robotics (Special Session 1)	1	181	121	380	236	
	2	254	199	376	320	
Biomorphic Robotics (Special Session 4)		248	255	279	310	
Compliant Motion Control		223	295	94	165	328
Control	1	143	373	174	291	
	2	42	24	274	347	113
Cooperative Robotics		78	235	253	293	
Demining Robotics		59	321	391		
Fractional Derivatives in Mechatronics and Robotics (Special Session 8)	1	49	150	104	93	
	2	95	348	375	308	
Fuzzy Control		315	167	219	264	
Grasping and Hand Design		206	136	215	26	196
Haptic Interfaces	1	343	91	101	107	
	2	125	336	227		
Humans and Robots	1	68	204	178		
	2	61	205	224	69	
	3	280	299	314	324	370
Intelligent Vehicles		155	346	316	360	267
Kinematics	1	35	158	374		
	2	38	311	232	134	381
Learning	1	393	191	197	225	
	2	262	268	282	353	
Localization	1	87	129	131	156	182
	2	210	217	246	290	
	3	364	301	213	186	
Medical/Biomedical Robotics		118	40	66	201	
Mobile Robots	1	317	18	132	86	162
	2	395	33	190	58	
	3	166	117	307	239	
	4	323	160	46	330	
	5	259	164	187	244	56
	6	151	122	159	149	111
	7	273	188	272	305	127
	8	306	163	304	64	109
Mobile Robots and Sensors		21	183	250	326	
Motion Planning		396	28	60	216	
Multi-Legged Robots (Special Session 2)		161	397	338	371	222
Multiple Robots in Dynamic Environments (Special Session 3)		100	300	313	344	367
Multirobot Systems	1	233	67	99	110	
	2	50	37	105	358	
Networked and Cooperative Robotics (Special Session 7)	1	137	170	193	245	
	2	286	322	329		
Obstacle Avoidance		27	141	241		
Olfaction-Based Mobile Robot Navigation (Special Session 10)	1	386	240	387		
	2	389	390	388		
Parallel Manipulators		17	139	140	231	383
Path Planning & Non-Holonomic Systems		284	319	12	266	
Rehabilitation Robotics		195	277	275	177	276

Robotic Applications		92	96	172	331	
Robotic Information Fusion (Special Session 9)	1	192	194	228		
	2	294	369	283		
Robotics Technologies for Intelligent Vehicles (Special Session 5)	1	366	31	39	55	
	2	112	16	79	43	
	3	114	144	337	48	392
Robots and Art (Special Session 6)		71	153	269	334	
Sensor Based Planning		57	168	175	207	
Sensor Systems and Sensor Fusion		242	256	261	135	258
Soft Computing		41	394	251	312	
Space and Aerial Robotics		80	208	296	351	339
Telerobotics	1	13	179	126	243	345
	2	44	47	81		
Walking Robots		2	52	103	200	327
Vision	1	298	325	45	173	
	2	7	116	146	198	379
	3	362	352	72	260	285
Vision-Based Navigation		29	51	229	237	