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Comparative Study of Codes (Standards / Guidelines) of ethics (Conduct / Practice) of Computer Societies - Annex

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**Comparative Study of Codes
(Standards / Guidelines)
of Ethics (Conduct / Practice)
of Computer Societies**

Annex: Detailed Tables

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1. Comparison of Codes (Standards / Guidelines) 'sensu stricto'

N.B.:

- The detailed tables include references which allow the reader to find directly, in the code itself, the excerpt concerned.
- Question marks inside tables indicate ambiguity.
- The CEPIS code and the SEARCC Guidelines are addressed to Computers Societies. Only in these cases (and in the Draft Code of Sackman, which is not recognised by a computer society) the addressees of codes / guidelines are different from the subjects of rules in these codes / guidelines!

Table 1.A Wording of the titles according to IFIP national Computer Societies

		'ETHICS'	'CONDUCT'	'PRACTICE'
ACM	Association for Computing Machinery	ACM Code of <i>Ethics</i> and	Professional <i>Conduct</i> (1992)	
ACS	Australian Computer Society	ACS Code of <i>Ethics</i>	[including: Standard of <i>Conduct</i>]	
AICA	Associazione Italiana per l'Informatica ed il Calcolo Automatico		Codice di <i>Condotta</i> Professionale dei Soci Ordinari AICA	
BCS	British Computer Society		BCS Code of <i>Conduct</i> : Rules of Professional <i>Conduct</i> (1992) Standards of <i>Conduct</i>	BCS Code of <i>Practice</i> (1978)
CIPS	Canadian Information Processing Society	CIPS Code of <i>Ethics</i> and (1985)		
CSI	Computer Society of India	CSI Code of <i>Ethics</i> (1993)		
CSSA	Computer Society of South Africa		CSSA Code of <i>Conduct</i> (1988) [including: The code as applied to a consultant The code as applied to salespersons]	[including: Codes of <i>Practice</i>] CSSA Code of <i>Practice</i> (1988)
CSZ	Computer Society of Zimbabwe	The CSZ Code of <i>Ethics</i> for Institutional Members (1992)	The CSZ Code of Professional <i>Conduct</i> for Individual Corporate Members (1992)	The CSZ Training Accreditation Code of <i>Practice</i> (1992)
GI	Gesellschaft für Informatik	The CSZ Code of <i>Ethics</i> for all Individual Members (1992) <i>Ethical</i> Guidelines of the GI (1994)	The CSZ Code of Professional <i>Conduct</i> for Registered Consultants (1992)	
ICS	Irish Computer Society		ICS Code of Professional <i>Conduct</i> (1994)	
IEEE	Institute of Electrical and Electronics Engineers, Inc.	IEEE Code of <i>Ethics</i> (1990)		
NZCS	New Zealand Computer Society, Inc.	NZCS Code of <i>Ethics</i>		
SCS	Singapore Computer Society		and Professional <i>Conduct</i> (1978) SCS Professional Code of <i>Conduct</i>	

Table 1.B Wording according to other computer Societies

	'ETHICS'	'CONDUCT'	'PRACTICE'
ASIS	American Society for Information Science	ASIS Code of <i>Ethics</i> for Information Professionals (current draft 1992)	
CEPIS	Council of European Professional Informatics Societies	CEPIS Code of Professional <i>Conduct</i>	
CPSR	Computer Professionals for Social Responsibility and Privacy International		CPSR Code of Fair Information <i>Practices</i> (to promote information privacy)
IPAK	Information Processing Professionals Association of Korea	Draft Code of H. Sackman (1990) IPAK Code of <i>Ethics</i>	IPAK Standards of <i>Conduct</i>
JISA	Japan Information Service Industry Association	JISA Code of <i>Ethics</i> and Association	Professional <i>Conduct</i>
SEARCC	South East Asia Regional Computer Confederation	SEARCC Code of <i>Ethics</i>	
VRI	Nederlandse Vereniging van Registerinformatici	SEARCC General Guidelines for the Preparation of Codes of <i>Ethics</i> for Members VRI Code of <i>Ethics</i>	[including: Rules of <i>Conduct</i>]

Table 2.A Estimated content level (IFIP national Computer Societies)

	GENERAL	SPECIFIC
ACM	ACM Code of Ethics and Professional Conduct (1992)	
ACS	ACS Code of Ethics	
AICA	Codice di Condotta Professionale dei Soci Ordinari AICA	
BCS	BCS Code of Conduct: Rules of Professional Conduct (1992)	BCS Code of Practice (1978)
CIPS	CIPS Code of Ethics and Standards of Conduct (1985)	
CSI	CSI Code of Ethics (1993) [including: Codes of Practice]	
CSSA	CSSA Code of Conduct (1988) except:	The code as applied to a consultant The code as applied to salespersons CSSA Code of Practice
CSZ	The CSZ Code of Ethics for all Individual Members (1992) The CSZ Code of Ethics for Institutional Members (1992)	The CSZ Training Accreditation Code of Practice (1992) The CSZ Code of Professional Conduct for Registered Consultants (1992)
GI	The CSZ Code of Professional Conduct for Individual Corporate Members (1992)	
ICS	Ethical Guidelines of the GI (1993)	
IEEE	IEEE Code of Professional Conduct (1994)	
NZCS	NZCS Code of Ethics (1990)	
SCS	NZCS Code of Ethics and Professional Conduct (1978) SCS Professional Code of Conduct	

Table 2.B Estimated content level (Other Computer Societies)		
	GENERAL	SPECIFIC
ASIS	ASIS Code of Ethics for Information Professionals (current draft, 1992)	
CEPIS	CEPIS Code of Professional Conduct	
CPSR		CPSR Code of Fair Information Practices (to promote information privacy)
IPAK	Draft Code of Sackman (1990) IPAK Code of Ethics IPAK Standards of Conduct	
JISA	JISA Code of Ethics and Professional Conduct SEARCC General Guidelines for the Preparation of Codes of Ethics for Members	
VRI	VRI Code of Ethics [including: Rules of Conduct]	

Table 3.A.1 Sorting keys for rules in general Codes / Standards or Guidelines of IFIP national Computer Societies

	Subject	Reference	Responsibility field
ACM (92)	2 / 3	1 ? / 2 / 3	4
ACS		4 / 6	1 / 2 / 3 / 5
AICA	No sorting	No sorting	No sorting
BCS (C. Conduct 92)		1-4	18-22
		5-12	
		13-17	
		18-22	
		P / M / F / E / C / S	
		1 / 2 / 3 / 4 / 5	
	5		1 / 2 / 3 / 4 / 6
CIPS			
CSI			
CSSA (C. Conduct except consultant and salespersons)			
CSZ C. Eth. all Indiv. Members	No sorting	No sorting	1 / 2 / 3 / 4
CSZ C. Eth. Instit. Members	No sorting	No sorting	No sorting
CSZ C. Conduct Ind. Corp. Memb.	I / II / III / IV	II / III	No sorting
GI			
ICS	No sorting	2 / 3 / 4 / 5	No sorting
IEEE	No sorting	P1-P4	
NZCS		E1-E7	
		S1-S2	
		O1-O2	
SCS			1 / 2 / 3 / 4

N.B.: In columns 2 to 4, bold characters indicate the only or main sorting key(s) for a given code.

Table 3.A.2 Sorting keys for rules in specific Codes / Standards of IFIP national Computer Societies

Subject	Reference	Responsibility field	Time (or phase)
BCS Code of Practice	1 / 2	4	3 / 5 / 6 / 7
[CSSA C.C. as applied to a Consultant]	No sorting	No sorting	No sorting
[CSSA C.C. as applied to Salespersons]	No sorting	No sorting	No sorting
CSSA Code of Practice	Cf. BCS	Code of	Practice
CSZ C. Profes. Conduct Registered Consultants	No sorting	No sorting	No sorting
CSZ Training Accreditation Code of Practice		3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 11	

N.B.: In columns 2 to 5, bold characters indicate the only or main sorting key for a given code.

Table 3.B Sorting keys for rules (General Codes / Standards or Guidelines of other Computer Societies)

Subject	Reference	Responsibility field
ASIS	1-3 4-5 6-8	(Secondary key)
CEPIS	2 / 3 / 4 / 5	3 / 4 (+ Secondary key)
Draft Code of Sackman	1 / 2 / 3 / 4	
IPAK Code of Ethics	2 / 3	
IPAK Stand. of Conduct	2 / 3	
JISA	1 / 2 / 3	
SEARCC C. Ethics	2.0 / 3.0	1.0
SEARCC Guidelines	No sorting	No sorting
VRI	No sorting	No sorting

N.B.: In columns 2 to 4, bold characters indicate the only or main or first sorting key for a given code.

Table 4.A.1 Subjects for rules in general Codes / Standards or Guidelines of IFIP national Computer Societies

	Individ. subject		Instit. subject				
	Comp. profes.	Voting ¹ Leader	Sales- pers.	Teacher Consult.	Company/ organ. Societies	Computer Intern. organ.	Providers of IT train. org. Soc. infl. int. legal int. pub. informat. policy
ACM	1 / 4	2					
ACS	1 - 6						
AICA		3					
BCS C. C. (92)	1 - 22	1 - 7		1 / 5	1 ? / 2 ?		
CIPS	P / M / F / E / C / S		S		5 - 12 ?		
CSI	1 - 5				C ?		
CSSA C. C. (exc. cons. and sales.)	1 - 6	3			4 ?		
CSZ C. E. all I. M.	1 - 4				2 ?		
CSZ C. E. Inst. M.							
CSZ C. C. Corp. M.		1 - 8					
GI	I				1 - 5 (Organis.)		
ICS	2 - 5	II					
IEEE	1 - 10	III					
NZSC	all rules						
SCS	all rules						IV (GI)

¹ Named 'corporate' in CSZ.

Table 4.A.2 Subjects for rules in specific Codes / Standards of IFIP national Computer Societies

	Indiv. subject		Institut. subject	
	Comp. profes.	Voting Leader Sales- persons	Teacher Consult. organ.	Computer Society/ Societies
BCS Pract. 1 - 7				
ICSSA C.			X	
C. Cons.]		X		
ICSSA C.				
C. Salesp.]				
CSSA C.		Cf. BCS Code of Practice		
Practice				
CSZ C. P.			1 - 10	
C.R. Cons.				1 - 11
CSZ T. A.				
C. Pr.				

Table 4.B Subjects for rules (General Codes / Standards or Guidelines of other Computer Societies + CPSR)

	Indiv. subject		Institut. subject	
	Comp. prof.	Voting Leader Sales- pers.	Teacher Consult. organ.	Computer Society/ Societies
ASIS	1 - 8 ?			
CEPIS	2 - 5 (M. of C. Soc.)			
CPSR (Draft Code Sackman)	?	Not clearly specified		
IPAK Code of Ethics	1			
IPAK Stand. of Conduct	2 - 3			
JISA				
SEARCC C. Ethics				1 - 3 (Companies) ? 1.0 / 2.0 / 3.0 ? (Societies)
SEARCC Guidelines	1 - 7 (M. of C. Soc.) 'Code' + all the rules			
VRI				

Table 5.A.1 References for rules in general Codes / Standards or Guidelines corresponding to IFIP national Computer Societies

PUBLIC ORGANISATION							ONESELF/ PROFESSION/ COMP. SOCIETY
	As a whole	Clients/ users	Employer	Employees	Spons.	Coll.	St. / Asp.
ACM	1	3	3,4/3,5	1	1	1	2 (Prof.)
ACS	4	1/2/3	1/2	1			5 (Prof.) 6 (Prof.)
AICA	4	3	5-12				13-22
BCS C. Cond. (92)	1-4		5-12			F	M (Oneself and Prof.)
CIPS	P	C	E			S	1.5 (C. Soc.)
CSI	5.1-5.4	1.1/ 2.1-2.5	4.1-4.4	3.1-3.4			1/3/4 (Oneself) 5 (C. S. and Memb. C S)
CSSA C. C. (except consult. and salespers.)	(5)	2		6			Introd. (C.Soc.) 1-3 (Oneself) 4 (Oneself and C. Soc.) 3 (Oneself) 1-4 (Oneself)
CSZ Inst. M.		1/5					
CSZ Ind. M.		6		Expl. 2 and 6 and 10 / 5 ?	6	8	
CSZ Ind. C. M.	1 / 7						
GI	7	3					
ICS	2	3					4 (Prof.) 5 (Oneself?) Introd. (Prof.) S (C. Soc.)/O (Prof. ?)
IEEE	1	Introd.?	E	E		10	1-3 (Oneself?) S (C. Soc.)/O (Prof. ?)
NZCS	P		E	E			1-3 (Oneself?)
SCS	3.3 / 4.5	2.3	2.3	2.3		3.2	3.2 3.2 4 (Prof. and C. Soc.)

Table 5.A.1 bis References for rules in general Codes / Standards corresponding to IFIP national Computer Societies

PUBLIC ORGANISATION							ONESELF/ PROFESSION/ COMP. SOCIETY
WORDING OF TITLES	As a whole	Clients/ users	Employer	Employees	Spon.	Coll.	St. / Asp.
Ethics only							
CSZ Inst. M.		1/5					Introd. (C.Soc.) 1-3 (Oneself)
CSZ Ind. M.		6 /				8	4 (Oneself and C. Soc.) 1-4 (Oneself)
GI	7	Expl. 2 and 6 and 10		Expl. 2 and 6 and 10 / 5 ?			
Ethics and Conduct							
IEEE	1	Introd.?				10	Introd. (Prof.)
ACM	1	3	3,4/3,5				2 (Prof.)
ACS	4	1/2/3	1/2	1		1	5 (Prof.) 6 (Prof.)
CIPS	P	C	E			F	M (Oneself and Prof.)
NZCS	P	E	E			S	S (C. Soc.)/O (Prof. ?)
CSI	5.1-5.4	1.1/ 2.1-2.5	4.1-4.4	3.1-3.4			1.5 (C. Soc.)
AICA	4	3					
BCS Cond.	1-4	5-12	5-12				13-22
CSSA C. C. (except c. and sal.)	(5)	2		6			1/3/4 (Oneself) 5 (C. S. and Memb. C S)
CSZ Ind. C. M.	1 / 7	6				6	3 (Oneself)
ICS	2	3	3				4 (Prof.) 5 (Oneself?)
SCS	3.3 / 4.5	2.3	2.3	2.3		3.2	1-3 (Oneself?) 4 (Prof. and C. Soc.)

Table 5.A.2 References for rules in specific Codes / Standards corresponding to IFIP national Computer Societies

PUBLIC ORGANISATION		ONESELF/ PROFESSION/ COMP. SOCIETY
As a whole	Clients/ users	Employers Spons. Coll. St./ Asp.
BCS Pract.	Intro 1.4 etc. Intro 1.1	1.1 1.1-1.4
[CSSA C. C. Consult.]	Intro X	
[CSSA C. C. Salesp.]	X	
CSSA C. Practice	BCS Code of Practice	9
CSZ C. P. C. R. Cons.	Cf. 1/4/6-9	3/ 7.2/ 7.3/ 8/9
CSZ T. A. C. Pr.	4.1/5/ 6.4/ 6.6/7/ 9/11	

Table 5.B References for rules (General Codes / Standards or Guidelines of other Computer Societies + CPSR)

PUBLIC ORGANISATION		ONESELF/ PROFESSION/ COMP. SOCIETY
As a whole	Clients/ users	Employers Spon. Coll. Stud.
ASIS	6-8	4/5 (Profes.)
CEPIS	2 1/2 3	4 (Profes.) (4.1)
CPSR	cf. Acro. ?	5 (Oneself ?)
Draft C. of Sackman	1.1/4 1.5	? 1.3/ 1.5
IPAK Code of Ethics	1.1/1.5 3.1 - 3.4 1.1/ 1.2	1 (Profes.) 1.1 1.3 (Other Members C.Soc.) 1.4 (C.Soc.+ Country) 2.1-2.7 (C.Soc.+ Country) 3.1-3.5 (C.Soc.+ Country)
IPAK Stand. of Conduct	2.1 - 2.6	3.4 (Profes.) 3.1/3.2 (Other Members C. S.)!! 1.0 (Oneself ?) 2.0 (C. Society) 3.0 (Other Members C.S.)
JISA	1 2	1/2 / 3 (Oneself ?)
SEARCC C. Ethics	3.5 / 3.6	1/4/9/10 (Ones.?) 7 (Profes.)
SEARCC Guidelines	4/5 6 ? / 7 ?	
VRI	'Code' / 2 / 8	

Table 6.A.1 RESPONSIBILITY FIELD: Respectful general attitude
(General Codes/Standards or Guidelines of IFIP national Societies)

	C. SOC.	PROFES.	INVOLVED	PEOPLE	SOCIETY	(as a whole)	ENV.
	Reputation	Prestige	Interests / rights	Quality of life	Welfare and health	Inter./rights	In gen.
ACM (92)		6.3 (other)	1 / 2.4 / 4.3 / 6.3	3.2	1.1 / 1.2 / 3.2	1 / 4.4	1.1
ACS					4 / 4.1 / 4.5		
AICA		13 / 14	2		1	4	1
BCS C.C.(92)		M2	F/S3 /F2/E/C			P	
CIPS		2.1	2.2 / 3.1 / 4.3	3.3		N. Guid. 4 (Rights)	5.4
CSI	1.5		N. Guid. 4 (Rights)		Princ. 6 (+N. Guid. 6)		
CSSA C. C. (except cons. and salesp.)	Princ. 5 (+ Members cf. N. Guid.)						
CSZ C. Eth.		1					
I.M.		4					
CSZ C. Eth. all Ind. M.						7	
CSZ C. Pr. C. Ind. C. M. GI			2 / 6 / 7 / 8 / 9 / 10	5 (Working cond.)		4 / 11	Expl. 4 Expl. 7
ICS		4.1		Introd. ?	2.2	2.5	9 ?
IEEE				8 ?	1		(incl.: reputat.)
NZSC	S1 / S2	Preamble O1?	E.7 (Interests)			P1 (Rights) / O1 (Pr. rep.) / O2 (Rights of property)	
SCS	4	4 (Prof.) / 4.4 (Others)			4.5		

Table 6.A.2 RESPONSIBILITY FIELD: Respectful general attitude
(Specific Codes/Standards of IFIP national Societies.)

	C. SOC.	PROFESS.	INVOLVED	PEOPLE	SOCIETY	(as a whole)	ENV.
	Reputation	Prestige	Interests / rights	Quality of life	Welfare and health	Inter./rights	Differ. In gen.
BCS Code of Practice			1.4 (Interest of user)				
[CSSA C.C. Consultant]							
[CSSA C.C. Salespersons]		X					
CSSA Code of Practice		BCS	Code	of	Practice		
CSZ C. Pr. C. R. Consult. CSZ Training Accred. C. Pr.			1 (Interest of clients)				

Table 6.B RESPONSIBILITY FIELD: Respectful general attitude
(General Codes / Standards or Guidelines of other Societies)

	C. SOCIETY ²		PROFES.		INVOLVED PEOPLE		SOCIETY (as a whole)		ENV.
	Reputation / Rules of comp./ Interest/ Aim / Policies		Prestige	Interests / rights	Quality of life	Differ.	Welfare and health or quality of life	Inter./rights Differ. In gen.	
ASIS			5.5	7.2		3		7	
CEPIS			4.1		2.4 / 4.3		2.2	2.5	2.2
Draft C. of Sackman							1.1 / 3.2 / 4.2 / 4.6	4.6	3.2
IPAK Code of Ethics	1.3 (Fel. Memb.) 1.4 (C.Soc. Pol.) 2.1 (C.Soc. Impr.) 2.3 (C.Soc. Inter.) 2.6 (C.Soc. Res.) 3.5 (Fel.Memb.)			1.2 (Users)			1.5 / 3.4	3.3	
IPAK Standards of Conduct									
JISA	3.1 (Rules compet.)				3.5 (Employees)				
SEARCC C. Ethics	1.2 (C.Soc. Aim) / 2.1 and 2.2 (Inter. of other Members)								
SEARCC Guidelines VRI		7		3 (Employers) 8 (Pers./inst.)		4		8	5 ? 2

² Plus Country for IPAK.

Table 7.A.1 RESPONSIBILITY FIELD: Conscientiousness
(General Codes/Standards or Guidelines of IFIP national Societies)

	Acceptance of responsibility	Concern to meet overall objectives	Conscientious work	Professionalism
ACM (92)	3.1	2.5	2.1	2.2
ACS	2.5		2.7	6 / 6.9 (promotion of p. in computing)
AICA			6	
BCS C. of C. (92)	21			
CIPS	E1		M / C / S / E2	
CSI				
CSSA Code Conduct (except consult. and salespers.)	Princ. 4			
CSZ C. Eth. Instit. M.				
CSZ C. Eth. all Ind. M.			2	
CSZ C. Pr. C. I. Corp. M.				
GI	7 / 8			1/5
ICS	5.2			4.3 (Promotion for others)
IEEE	1			
NZCS			E4 (care)	
SCS	2		2.1 ?	

Table 7.A.2 RESPONSIBILITY FIELD: Conscientiousness
(Specific Codes/Standards of IFIP national Societies)

	Acceptance of responsibility	Concern to meet overall objectives	Conscientious work	Professionalism
BCS Code of Practice	2.4	2.1	3.2	
[CSSA C. C. Consultant]	X			
[CSSA C. C. Salespersons]		BCS	Code of	Practice
CSSA Code of Practice	Cf.			
CSZ C. Pr. C. R. Consultants				
CSZ Training Accred. C. Pr.				

Table 7.B RESPONSIBILITY FIELD: Conscientiousness
(General Codes / Standards or Guidelines of other Societies)

	Acceptance of responsibility	Concern to meet overall objectives	Conscientious work	Professionalism
ASIS			5.3	
CEPIS	5.2			4.3 (Promotion for others)
Draft C. of Sackman	1.5 / 2.1			
IPAK C. Ethics	1.1			
IPAK St. Conduct	2.3		2.1	3.4 ?
JISA	1			3.3
SEARCC C. Ethics	2.2			
SEARCC Guidelines				
VRI	comment 7			

Table 8.A.1 RESPONSIBILITY FIELD: Honesty and positive attitude
(General Codes/Standards or Guidelines of IFIP national Societies)

	Personal (institutional) integrity	Respect for requirements /contracts or agreements	Credit for work done by others	goodwill	Courage of Acquaint. one's conviction with techn. evolution
ACM (92)	1.3 / 2.2	2.6			
ACS	3 / 3.1 - 3.6 / 6 / 6.2	2.1	3.6		
AICA	5 (impartiality)				
BCS C. of C. (92)	7 / 10 / 11 / 12 / 16	5 / 6	M2	S	
CIPS	P2 / P3 / M / F / C / C1				
CSI	1.3 / 1.6 / 2.1 / 2.2 / 2.5 / 4.4 (impartiality)	4.1			
CSSA C. C. (except consult. and salespers.)	Princ. 1 / Princ. 3 (? impartiality)	Princ. 3			N. Guidance: about integrity
CSZ C. Eth. Insttt. M.	4				
CSZ C. Eth. all Indiv. M.	2 / 4		4		
CSZ C. Pr. C. Ind. C. M.		6			
GI					9
ICS	3.3 / 4.4	3.1 / 3.2			
IEEE	3 and 7 (honest) / 4 (No bribery) / 9 (No malicious action)		7		
NZSC	Preamble				
SCS	? P3 / P4 / E2 / E3 / E5 / E6				
	1 / 1.3 / 4.2 ? / 1.4 ?		1.4		

Table 8.A.2 RESPONSIBILITY FIELD: Honesty and positive attitude
(Specific Codes/Standards of IFIP national Societies)

	Personal (institutional) integrity	Respect for requirements / contracts or agreements	Credit for work done by others	Good faith / goodwill	Courage of one's conviction	Acquaint. with technology evolution
BCS Code of Practice	5.1 (impartiality)	constraints: 5.12 (time and costs) / 7.1 (budgets) / 7.3 (all)				
[CSSA C.C. Consultant]	X (honest opinions, impartiality, objectivity)					
[CSSA C.C. Salespersons]	X (honesty, loyalty, no corruption)	X	X	X		
CSSA Code of Practice	Cf.	BCS	Code	of	Practice	
CSZ C. Pr. C.	2 / 3 / 5 / 7	6				
R. Consult.						
CSZ Training	3.2 / 4.3					
A.C. Pr.						

Table 8.B RESPONSIBILITY FIELD: Honesty and positive attitude
(General Codes/Standards or Guidelines of other Societies)

	Personal (institutional) integrity	Respect for requirements / contracts or agreements	Credit for work done by others	Good faith / goodwill	Courage of one's conviction	Acquaint. with technology evolution
ASIS	1 / 4 / 4.1 - 4.3 / 5.6	5.1				
CEPIS	3.3 / 4.4	3.1 / 3.2				
Draft C. of Sackman	1.3	1.5				
IPAK C. of Ethics	2.2 (+ no selfishness) / 2.3 / 2.6 / 2.7.					2.5
IPAK St. of Conduct	2.2 / 2.4 / 2.5 / 2.6 / 3.1 (morality) / 3.2 / 3.4					
JISA	2.1 ? / 3.2 ?					
SEARCC	1.3					
C. Ethics						
SEARCC						
Guidelines				3.1 / 3.2		
VRI	Comments 1 and 7					

Table 9.A.1 RESPONSIBILITY FIELD: Competence and efficiency
(General Codes/Standards or Guidelines of IFIP national Societies)

COMPETENCE				EFFICIENCY	
General	Limitation to the field of competence	Profes. dev. / Training	Prof. review	Work quality	Best use of I. S. resources improv.
ACM (92)	2.2	2.2 (pers.) / 3.6 (for others)	2.4	2.1	3.2
ACS	2	5 / 5.1 - 5.2 (pers.) 5.3 (for others)	6.1	1.1 / 2.1 2.2 / 2.3	
AICA	2	1 (pers.)			
BCS C. of C. (92)	17 / 20	18 and 15 (pers. and for others)			
CIPS	M	P3 / P / E2 / C		E5	
CSI		S1 (pers.)		4.2	1.1 / 5.1
CSSA C. C. (except consult. and salespers.)		Princ.1			
CSZ C. Eth. Inst. M.	1				2
CSZ C. Eth. all Indiv. M.	3 / 5			2	
CSZ C. Pr. Cond. Indiv. C. M.	1/2/3/4				
GI	5.2				
ICS	6	3 (pers.)			
IEEE	E4	1 (pers.)			
NZSC		5.1 (pers.)			
SCS		4.3 (for others) 10 (others)	7 (criticism)		
		3 and 3.1 (pers.) / 3.2 (others)			

Table 9.A.2 RESPONSIBILITY FIELD: Competence and efficiency
(Specific Codes/Standards of IFIP national Societies)

COMPETENCE				EFFICIENCY	
General	Limitation to the field of competence	Profes. dev. / training	Prof. review	Work quality	Best use of I. S. resources improv.
BCS Code of Practice	1.3 (pers.) / 2.2 (subordin.) 3.1 (consulting experts)	1.1 (pers. and others) / 1.2 (subordinat.) 6.1		1.4 (eff.)	
[ICSSA C. C. Consultant]	X (of organisation)				
[ICSSA C. C. Salespersons]	BCS 10				
CSSA Code of Practice	Cf.	Code	of	Practice	
CSZ C. Pr. Cond. R. Consultants					
CSZ Training Accred. C. Practice					

Table 9.B RESPONSIBILITY FIELD: Competence and efficiency
(General Codes/Standards or Guidelines of other Societies)

	COMPETENCE			EFFICIENCY		
	General Limitation to the field of competence	Profes. dev. / Training	Prof. review	Work quality	Best use of resources	I. S. improv.
ASIS	5 / 5.2 5.1	5 and 5.4; (pers. and for others)	5.4	5.3 / 5.5		6
CEPIS	5.2	5.1 (pers.) 4.3 (for oth.)				
Draft C. of Sackman	1.4 1.4			2.1		
IPAK C. of Ethics	2.1					2.7
IPAK Stand. of Conduct	2.1					
JISA		3.6 (employees)		2.3		
SEARCC C. Ethics						
SEARCC Guidelines	2	2 (pers.)		1		
VRI	9	com. 9 (pers.) / 10		4 (+ com.)		

Table 10.A.1 RESPONSIBILITY FIELD: Promotion of information privacy and data integrity
(General Codes/Standards or Guidelines of IFIP national Societies)

	Privacy in general	No computer crime / inform. piracy or misuse	Confidentiality	Respect for property rights	Data minim.	Data integrity (accur./ secur./ reliability)
ACM (92)	1.7	2.3 (No comp. crime)	1.8 / 2.8 / 3.3	1.5 / 1.6		1.2
ACS	4.2		1.3	1.3		
AICA			3			
BCS C. C. (92)			8			
CIPS			C / P4 / E3	E4		
CSI	1.4 / 2.4	1.4	2.3	5.3		
CSSA C. C. (except cons. and salespers.)			Princ. 2	N. Guid. 1		
CSZ C. Eth.						
Instit. M.					3	
CSZ C. Eth. all						
Indiv. M.						
CSZ C. Pr. C.	4		3			
Indiv. C. M.			2			
ICS	2.3		3.4	2.2		
IEEE		?? 9 (No malicious action)				
GI	Expl. 3 ?	Expl. 3	6	Expl. 3		Expl. 3 (Sec.)
NZSC			P1 / E1			
SCS			1.2			

Table 10.A.2 RESPONSIBILITY FIELD: Promotion of information privacy and data integrity (Specific Codes/Standards of IFIP national Societies)

	Privacy in general	No comp. crime / inf. piracy or misuse	Confidentiality	Respect for property rights	Data minim.	Data integrity (accur./secur./reliability)
BCS Code of Practice	4		4.5			4 / 4.1 - 4.4 / 4.6
[CSSA C. C. Consultant]						
[CSSA C. C. Salespersons]						
CSSA Code of Practice	Cf.	BCS	Code 8	of	Practice	
CSZ C. Pr. C. R. Consult.						
CSZ Training Accr. C. Pr.						

Table 10.B RESPONSIBILITY FIELD: Promotion of information privacy and data integrity (General Codes/Standards or Guidelines of other Societies + CPSR)

	Privacy in general	No computer crime / info. piracy or misuse	Confidentiality	Respect for property rights	Data minim.	Data integrity (accur./secur./reliability)
ASIS	2		2 / 2.2	2	2.1	2.1 / 6.1 / 6.3
CEPIS	2.3		3.4	2.2		
CPSR	5 (policy)	1			2	3
Draft C. of	1.2 / 4.2 / 3.2	3.4 / 2.3		3.1 / 2.3		
Sackman						
IPAK C. of	3.1		2.4 (+ secrecy)			
Ethics			3.1 (secrecy)			
IPAK Stand. of						
Conduct						
JISA			2.2 / (3.2)	3.3		
SEARCC			3.4			
C. Ethics						
SEARCC						
Guidelines						
VRI	comment 5	5 (abuse)				

Table 11.A.1 RESPONSIBILITY FIELD: Production and flow of information (General Codes/Standards or Guidelines of IFIP national Societies)

	PRODUCT. OF INFORM.			FLOW OF INFORMATION			
	Tests, eval. / results / specific.	Comprehens. information	To society as a whole	To involved parties or people	From involved parties or people	To Comp. Society	Interdiscipl. discussions
ACM (92)	2.5 (risks)	2.5	2.7	3.5			
AICA		7					
ACS	5.3		6.4	1.5 and 1.6 : (conflicts inter.) 2.6 / 5.3 / 6.4			
BCS C. of C. (92)			14	6 / 22 (conflicts inter.)			
CIPS		S	P / P1 / P6	F / F1 / C / C1 / C2 (conflicts inter.) / E1			
CSI		4.1		3.4			
CSSA C. C. (except consult. and salespers.)			N. Guid. 4	Pr. 3 (interest) / N. Guid. 4			
CSZ C. Eth. Instit. M.							
CSZ C. Eth. all Ind. M.							
CSZ C. Pr. Cond. Ind. C. M.			1	2 / 6			
GI	5		4 / 11	6	2 / 4 / 6 / 11		4 / 11
ICS			4.2	5.4 (conflicts inter.)			
IIEEE		5 ? (improv. understanding)	1 / 5 ?	2 (conflicts of interest) / 7 (criticism)			
NZCS		(?) P3	(?) P3	(?) E2 / E3 / E6			
SCS		3.3	1.3 ? / 2.3 ?				

Table 11.A.2 RESPONSIBILITY FIELD: Production and flow of information
(Specific Codes/Standards of IFIP national Societies)

	PRODUCT. OF INFORM. FLOW OF INFORM.			To Involved parties or people	From involved parties or people	To Comp. Society	Interdiscipl. discussions
	Tests, eval. / results / specif.	Comprehens. / unambiguous information	To society as a whole				
BCS Code of Practice	4.1 / 4.3 / 5.2 / 5.3 / 5.4 / 5.7 / 6.2	5.8 / 5.9 (comprehens.)	2.3 / 5.3 / 5.5 / 5.8 / 7.4	2.3 / 5.3 / 5.3 / 5.4 / 5.5 / 7.4			
[CSSA C. C. Consultant]		X (comprehens.)	X (risks, limitations, costs, all interests)				
[CSSA C.C. Salespersons]		X (unambiguous)	X (contingencies, risks, expense) of		Practice		
CSSA Code of Practice	Cf.	BCS	Code				
CSZ C. Pr. Cond. R. Consultant		2 (not misleading)	4 (interests or influences) / 9 (progress of the tasks)				
CSZ Training Accred. C. Practice		3.1 / 3.4 / 4.1 / 4.2 / 9 (unambiguous)					

Table 11.B RESPONSIBILITY FIELD: Production and flow of information
(General Codes / Standards or Guidelines of other Societies + CPSR code)

	PRODUCT. OF INFORM. FLOW OF INFORM.			To Involved parties or people	From involved parties or people	To Comp. Society / Country	Interdiscipl. discussions
	Tests, eval. / results / specif.	Comprehens. information	To society as a whole				
ASIS		7 / 7.1 / 7.2	4.2 (conflicts inter.) / 6.2				
CEPIS		4.2	5.4 (conflicts inter.)				
CPSR			4				
Draft C. of Sackman	1.5	3.1 / 4.1 / 4.4	1.5		2.5		
IPAK C. of Ethics		3.2				2.1	
IPAK Stand. of Conduct			2.1 / 2.2			3.3	
JISA							
SEARCC C. Ethics	2.1						
SEARCC Guidelines		6 / 7 ?					
VRI	6 (eval.)	comment 6	comment 6		comment 6		

Table 12.A.1 RESPONSIBILITY FIELD: Regulations
(General Codes / Standards or Guidelines of IFIP national Societies)

	ETHICAL		CODE		LAW		IT/PROF.		STANDARDS	
	Respect	Sanction	Devel.	Respect	Develop.	Respect	Respect	Develop.	Respect	Improv./ Dev.
ACM (92)	4.1	4.2		2.3						
ACS	4.6 / 6.8	6.5 / 6.6					2.3			
AICA	(Introduction)	(Postscript) + Disciplinary Procedures of previous Code		3			3 / 19			13
BCS C. of C. (92)	1.2 / 2.2 / Undertaking Discipl. Proc.	Proc. for action against a member Discipl. Proc.		1.4			P5			
CIPS										
CSI										
CSSA C. C. (exc. c. and sal.)										
CSZ C. Eth. Instit. M.										
CSZ C. E. all I. M.										
CSZ C. P. C. I. C. M.										
GI										
ICS										
IEEE										
NZCS										
SCS										

Table 12.A.2 RESPONSIBILITY FIELD: Regulations
(Specific Codes / Standards of IFIP national Societies)

	ETHICAL		CODE		LAW		IT/PROF.		STANDARDS	
	Respect	Sanction	Devel.	Respect	Develop.	Respect	Respect	Develop.	Respect	Improv./ Devel.
BCS Code of Practice [CSSA C. C. Consult.]										
[CSSA C. C. Salespersons]										
CSSA Code of Practice (Registr. Pr.) + intro to C.										
CSZ Train. Accr. C. Pr.										

Table 12.B RESPONSIBILITY FIELD: Regulations
(General Codes / Standards or Guidelines of other Societies)

	ETHICAL		CODE		LAW		IT/PROF.		STANDARDS	
	Respect	Sanction	Devel.	Respect	Develop.	Respect	Respect	Develop.	Respect	Improv./ Devel.
ASIS										
CEPIS										
Draft C. of Sackman										
IPAK C. of Ethics IPAK Stand. of Conduct										
JISA										
SEARCC C. Ethics										
SEARCC Guidelines										
VRI										

2. Comparison of Codes (Standards / Guidelines) Environments

N.B. :

The CEPIS code and the SEARCC Guidelines are addressed to Computers Societies. Only in these cases, the addressees of codes / guidelines are different from the subjects of rules in these codes / guidelines!

Table 13.A Sanction Levels according to IFIP national Computer Societies

	SANCTIONS LEVELS						
	Caution/ warning	Reprimand	Censure	Suspension	Striking / revocation / forfeiture / exclusion	Other	
ACM ³					X		
ACS ⁴					X		
AICA					X		
BCS ⁵		X		X	X		
CIPS ⁶	X			X	X		X
CSI ⁷					X		
CSSA ⁸	X			X	X		
CSZ ⁹					X		
GI ¹⁰					X		
ICS							
IEEE ¹¹			X	X	X		
NZCS ¹²				X	X		Fine
SCS							

³ See 4.2 in the Code: '... treat violations of this code as inconsistent with membership in the ACM'.

⁴ See 6.5 in the Code.

⁵ See the 'Disciplinary procedures' of previous Code of Conduct (1990) which is still in force.

⁶ See 'Enforcement procedures' in the Code.

⁷ See 'Procedure for action against a member for any breach of the Code of Ethics' in the Code.

⁸ See 'Disciplinary procedure' in the CSSA Code of Conduct.

⁹ See the 'Constitution' (§ Cessation of membership) in the 'CSZ Members Handbook, 1992'.

¹⁰ See RÖDIGER, K.H., Comments on the 'Ethical Guidelines of the G.I.', in this book.

¹¹ See Discipline, May 1981.

¹² See 'NZCS Constitution and By-Laws' 1991, (7 and 24).

Table 14.A Disciplinary Procedures according to IFIP national Computer Societies

Complaint	Suggestion to reconcile	Investigation	Hearing Process (including decision)	Appeal Process	Publication of Opinion	Record Retention
ACM						
ACS						
AICA						
BCS ¹³	to the Secretary-General		by the Disciplinary C.			
CIPS ¹⁴	to the National President		by the Hearing Committee	by the Executive Committee	in the appr. CIPS public. through the CSI Publications	by national for 5 years
CSI ¹⁵	to any Office Bearer of a Chapter or a member of the ExecCom. and then to the President	by the Honours Committee	by the Honours Committee appointed by the ExecCom			
CSSA ¹⁶	to the Executive Director	by a Committee of Enquiry + Recommendation to the Council, by the Disciplinary Board	by the Disciplinary Committee			to all other members
CSZ ¹⁷	to the Secretary	by the Secretary		by the Council with possibly the help of an Arbitration Panel		
GI						
ICS						

¹³ See 'Disciplinary procedures' of previous Code of Conduct (1990) which is still in force.

¹⁴ See 'Enforcement procedures' in the Code.

¹⁵ See 'Procedure for action against a member for any breach of the Code of Ethics' in the Code.

¹⁶ See 'Disciplinary procedure' in the CSSA Code of Conduct.

¹⁷ See 'Complaint procedure for unprofessional conduct by CSZ members' in the section on Members of the 'CSZ Members Handbook', 1992.

Table 14.A (continued) Disciplinary Procedures according to IFIP national Computer Societies

Complaint	Suggestion to reconcile	Investigation	Hearing Process (including decision)	Appeal Process	Publication of Opinion	Record Retention
IEEE ¹⁸	to the Chairman (MCC)	by MCC	Hearing: by Hearing Board (HB) Decision: by HB and/or the Board of Directors at the meeting of the national Council		possibly	
NZCS ¹⁹	to the President	by a pannel: Convenor of the Prof. M. Conn, a Fellow and an Adv. members		No appeals		
SCS						

Table 14.B Disciplinary Procedures according to other Computer Societies

Complaint	Investigation	Hearing Process	Appeal Process	Publication of Opinion	Record Retention
ASIS					
CEPIS					
CPSR					
Draft C. Sackman					
IPAK					
JISA					
SEARCC					
VRI ²⁰	before the arbitration court of the VRI				

¹⁸ That was the discipline in May 1981, but it does not seem applied anymore.

¹⁹ See 'NZCS Constitution and By-Laws' 1991, (7 and 24 c).

²⁰ See VRI Code.

Table 15.A Updating of the Code by the IFIP national Computer Societies

ACM	
ACS	
AICA	
BCS ²¹	'Only as and <i>when necessary</i> ' The nature, content and timing of proposed changes are under the responsibility of the BCS Vice-President Professional and the BCS Professional Board.
CIPS ²²	No formal mechanism for the CIPS Code review
CSI	
CSSA	<i>Not foreseen</i>
CSZ ²³	The Codes are all to be reviewed <i>annually</i> by the Membership Committee.
GI ²⁴	'The GI takes the obligation to let amend the Ethical Guidelines in a <i>continuous discourse</i> '
ICS	
IEEE	
NZCS ²⁵	<i>Not explicitly foreseen</i> but Special General Meeting may suspend, alter, add to ...the Code
SCS	

²¹ See SIZER, R., Comments on BCS and CSZ Codes, in this book.

²² See WHITEHOUSE, D., Canadian Information Processing Society (CIPS) - Code of Ethics and Standards of Conduct, in this book.

²³ See the section on Portfolio Charters in the CSZ Members Handbook, 1992.

²⁴ See Art. 2.3 of the GI's Statutes.

²⁵ See 'NZCS Constitution and By-Laws' 1991, (24).

Table 16.A Status of the IFIP national Computer Societies and of their Code(s)

SOCIETY	CODE
ACM	
ACS	Member society of the Federation on Computing in the United States (FOCUS)
AICA	
BCS	<i>Incorporated</i> by Royal Charter in July 1984 -> a <i>Chartered</i> Engineering Institution Recognised as the authoritative, impartial voice of IT professionals ²⁶ Member of the UK Engineering Council ²⁷ <i>Organism of accreditation</i> of university and programs and of <i>certification</i> of Information Systems Professionals Organism of representation of the IT profession to the Canadian government Linked with ACS, BCS.
CIPS ²⁹	
CSI	
CSSA	Affiliated to BCS, ACM, the Green Screen Club
CSZ ³⁰	Full member of the Africa Regional Computer Confederation A <i>chartered</i> and professional society.
GI ³¹	
ICS	Member Society of the CEPIS
IEEE	Member society of the Federation on Computing in the United States (FOCUS) Organism of <i>support</i> of members on ethical matters ³²
NZCS ³³	<i>Incorporated</i> (under the section 4 of the Incorporated Societies Act 1908 and Amendments)

BCS Code of Conduct with *constitutional authority*²⁸

The GI guidelines 'are part of the GI's statutes'
Conformity with the CEPIS recommendations

²⁶ See 'Introducing Professional Membership of the British Computer Society' (p. 1) and the postscript of the BCS Code of Conduct, 1992.

²⁷ See SIZER, R., Comments on BCS and CSZ Codes, in this book.

²⁸ See the postscript of the BCS Code of Conduct, 1992.

²⁹ See the booklet entitled: 'The Canadian Information Processing Society: A profile.' and also WHITEHOUSE, D., 1994, Canadian Information Processing Society (CIPS) - Code of Ethics and Standards of Conduct, in this book.

³⁰ See the Introduction in the CSZ Members Handbook, 1992.

³¹ See RÖDIGER, K.H., Comments on the 'Ethical Guidelines of the G.I.', in this book.

³² See *Source Sheet Ethics (For Professional Activities Committees of the IEEE United States Activities Board)*: Procedure for IEEE support.

³³ See 'NZCS Constitution and By-Laws' 1991.

Table 16.A (continued) Status of the IFIP national Computer Societies and of their Code(s)

SOCIETY	CODE
SCS ³⁴	Officially registered with the Registrar of Societies in 1967 Founder member of SEARCC 1978 Joint membership reciprocal agreement with ACM in 1992 Formally affiliated to BCS, ACS and IEEE Computer Society (- Singapore section)

Table 16.B Status of other Computer Societies and of their Code(s)

SOCIETY	CODE
ASIS	
CEPIS	Non-profit international professional organisation ³⁵ Part of the European Informatics Skills Structure (EISS)
CPSR	
IPAK	
JISA	
SEARCC	
VRI	

³⁴ See the booklet entitled: 'SCS - Singapore Computer Society - The National Society for IT Professionals'.³⁵ See the leaflet entitled: 'CEPIS Professional Development and Qualifications Task Force' published by CEPIS, and CEPIS Annual Report 1991/92.

Table 17.A Membership Structure according to the IFIP national Computer Societies

INDIVID.	MEMB.	Entitled to	vote ³⁶	Not entitled to	vote
ACM ³⁷		Voting M.		Assoc. M.	Stud. M.
ACS ³⁸		Society M.			
AICA ³⁹		Ordin. M.		Affil. M.	Stud. M.
BCS ⁴⁰		Fellows ⁴¹ (FBCS)	Members ⁴² (MBCS) (Regular) M. Indiv. M.	Assoc. M.	Affil. M. Stud. M. Assoc. M.
CIPS ⁴³					Stud. M.
CSI ⁴⁴		Full M.		Assoc.	
CSSA		Members		Affil. M.	M. Stud.
CSZ ⁴⁵		Honor. M.	Fellows	Assoc. M.	
GI ⁴⁶		Members			
ICS ⁴⁷		Profess. M.			
IEEE		Members			
NZCS ⁴⁸		Fellows (FNZCS)	Advanced M. (MNZCS)	Assoc. M.	Fellow M. Overseas M.
SCS ⁴⁹		Ordin. M.		Assoc. M.	

N.B.: Hashed rectangles symbolize membership grades which are explicitly described as *for not professional* Information Processing practitioners.³⁶ Named 'corporate grades' in CSZ and 'corporate (chartered) grades' in BCS.³⁷ See 'Preamble' of the Code. The student members are not explicitly described as not professional practitioners but are here supposed so.³⁸ See sub-title of the ACS Code and also the application form ('Domanda di Associazione').³⁹ See title of the AICA Code and also the application form ('Domanda di Associazione'). Only the ordinary members have to sign the code.⁴⁰ See 'Introducing Professional membership of the British Computer Society' (pp. 1 and 2).⁴¹ Belonging to 'Professional Membership' in BCS.⁴² *Id.*⁴³ See the CIPS Membership Application 93/94.⁴⁴ See 'Procedure for action against a member for any breach of the Code of Ethics' in the Code.⁴⁵ See the sections 'Members' and 'Constitution' in the CSZ Members Handbook, 1992.⁴⁶ See the Code and RODIGER, K.H., Comments on the 'Ethical Guidelines of the G.I.', in this book.⁴⁷ See the first line of the Code.⁴⁸ See 'NZCS Constitution and By-Laws' 1991, (4).⁴⁹ See the booklet entitled: 'SCS - Singapore Computer Society - The National Society for IT Professionals'.

Table 17.A (continued) Membership Structure according to the IFIP national Computer Societies

INSTITUTIONAL	MEMBER
ACM	
ACS	
AICA ⁵⁰	Collective M. Patron
BCS ⁵¹	Inst. Affiliate Business Affiliate
CIPS ⁵²	Institutional M. U.K. School Affiliate
CSI	Education Affiliate
CSSA	
CSZ ⁵³	Institutional M.
GI	
ICS	
IEEE	
NZCS	
SCS	

⁵⁰ See title of the AICA Code and also the application form ('Domanda di Associazione'). Only the ordinary members have to sign the code.

⁵¹ See 'Introducing Professional membership of the British Computer Society' (pp. 1 and 2).

⁵² See the CIPS Membership Application 93/94.

⁵³ See the sections 'Members' and 'Constitution' in the CSZ Members Handbook, 1992.

Table 17.B Membership Structure according to the other Computer Societies

	INDIVID.	MEMB.		INSTITUTION.	MEMB.
		to vote	Not entitled to vote		
ASIS ⁵⁴	Member				
CEPIS ⁵⁵					X
CPSR	?				
IPAK	Member			X	
JISA ⁵⁶					
SEARCC ⁵⁷					X
VRJ ⁵⁸	Member:				
RIS ⁵⁹					

⁵⁴ See the Code.

⁵⁵ See Foreword of the Code.

⁵⁶ See the Code.

⁵⁷ See 1.4 in the Code of Ethics.

⁵⁸ See the VRI Code.

⁵⁹ Registered Information Scientist.