Yingying Chen

List of Publications by Year
in descending order

189 papers	**7,476** citations	159358 **30** h-index	174990 **52** g-index
194 all docs	**194** docs citations	**194** times ranked	**4917** citing authors

#	Article	IF	Citations
1	E-eyes. , 2014, , .		616
2	Tracking Vital Signs During Sleep Leveraging Off-the-shelf WiFi. , 2015, , .		318
3	Push the limit of WiFi based localization for smartphones. , 2012, , .		310
4	Fast and practical secret key extraction by exploiting channel response. , 2013, , .		173
5	Detecting and Localizing Identity-Based Attacks in Wireless and Sensor Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 2418-2434.	3.9	170
6	Smart User Authentication through Actuation of Daily Activities Leveraging WiFi-enabled IoT. , 2017, , .		170
7	Wireless Sensing for Human Activity: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 1629-1645.	24.8	166
8	Kernel-Based Learning for Statistical Signal Processing in Cognitive Radio Networks: Theoretical Foundations, Example Applications, and Future Directions. IEEE Signal Processing Magazine, 2013, 30, 126-136.	4.6	163
9	Detecting driver phone use leveraging car speakers. , 2011, , .		158
10	Detecting and Localizing Wireless Spoofing Attacks. , 2007, , .		151
11	Detection and Localization of Multiple Spoofing Attackers in Wireless Networks. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 44-58.	4.0	142
12	Indoor Localization Using Improved RSS-Based Lateration Methods. , 2009, , .		134
13	Monitoring Vital Signs and Postures During Sleep Using WiFi Signals. IEEE Internet of Things Journal, 2018, 5, 2071-2084.	5.5	133
14	Accurate WiFi Based Localization for Smartphones Using Peer Assistance. IEEE Transactions on Mobile Computing, 2014, 13, 2199-2214.	3.9	124
15	A Practical Approach to Landmark Deployment for Indoor Localization. , 2006, , .		118
16	Robust Spectrum Sensing With Crowd Sensors. IEEE Transactions on Communications, 2014, 62, 3129-3143.	4.9	117
17	VoiceLive. , 2016, , .		114
18	Snooping Keystrokes with mm-level Audio Ranging on a Single Phone. , 2015, , .		110

#	Article	IF	Citations
19	Fine-Grained Abnormal Driving Behaviors Detection and Identification with Smartphones. IEEE Transactions on Mobile Computing, 2017, 16, 2198-2212.	3.9	106
20	Group Secret Key Generation via Received Signal Strength: Protocols, Achievable Rates, and Implementation. IEEE Transactions on Mobile Computing, 2014, 13, 2820-2835.	3.9	104
21	Multi - Touch in the Air: Device-Free Finger Tracking and Gesture Recognition via COTS RFID. , 2018, , .		100
22	Continuous Authentication Through Finger Gesture Interaction for Smart Homes Using WiFi. IEEE Transactions on Mobile Computing, 2021, 20, 3148-3162.	3.9	95
23	User Verification Leveraging Gait Recognition for Smartphone Enabled Mobile Healthcare Systems. IEEE Transactions on Mobile Computing, 2015, 14, 1961-1974.	3.9	88
24	Accelerating 5G QoE via public-private spectrum sharing. , 2014, 52, 77-85.		87
25	An Indirect Eavesdropping Attack of Keystrokes on Touch Screen through Acoustic Sensing. IEEE Transactions on Mobile Computing, 2021, 20, 337-351.	3.9	83
26	Achieving an effective, scalable and privacy-preserving data sharing service in cloud computing. Computers and Security, 2014, 42, 151-164.	4.0	82
27	Friend or Foe?. , 2016, , .		79
28	BreathListener. , 2019, , .		74
29	Fine-grained sleep monitoring: Hearing your breathing with smartphones. , 2015, , .		70
30	FitCoach: Virtual fitness coach empowered by wearable mobile devices. , 2017, , .		69
31	D^3: Abnormal driving behaviors detection and identification using smartphone sensors. , 2015, , .		68
32	Lip Reading-Based User Authentication Through Acoustic Sensing on Smartphones. IEEE/ACM Transactions on Networking, 2019, 27, 447-460.	2.6	66
33	Spectrum Sensing in Opportunity-Heterogeneous Cognitive Sensor Networks: How to Cooperate?. IEEE Sensors Journal, 2013, 13, 4247-4255.	2.4	64
34	RF-ECG. , 2018, 2, 1-26.		64
35	Empirical Evaluation of the Limits on Localization Using Signal Strength. , 2009, , .		63
36	Practical user authentication leveraging channel state information (CSI). , 2014, , .		61

#	Article	IF	Citations
37	LipPass: Lip Reading-based User Authentication on Smartphones Leveraging Acoustic Signals. , 2018, , .		61
38	SenSpeed: Sensing driving conditions to estimate vehicle speed in urban environments. , 2014, , .		60
39	User authentication on mobile devices: Approaches, threats and trends. Computer Networks, 2020, 170, 107118.	3.2	59
40	VibWrite. , 2017, , .		58
41	Authenticating Users Through Fine-Grained Channel Information. IEEE Transactions on Mobile Computing, 2018, 17, 251-264.	3.9	56
42	Smartphone based user verification leveraging gait recognition for mobile healthcare systems. , 2013, , .		55
43	Tracking vehicular speed variations by warping mobile phone signal strengths. , 2011, , .		54
44	Exploiting Jamming-Caused Neighbor Changes for Jammer Localization. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 547-555.	4.0	49
45	Distributed Consensus-Based Weight Design for Cooperative Spectrum Sensing. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 54-64.	4.0	49
46	MU-ID: Multi-user Identification Through Gaits Using Millimeter Wave Radios. , 2020, , .		47
47	TouchPass. , 2020, , .		46
48	RF-Kinect. , 2018, 2, 1-28.		45
49	Towards In-baggage Suspicious Object Detection Using Commodity WiFi. , 2018, , .		42
50	Device-free Personalized Fitness Assistant Using WiFi. , 2018, 2, 1-23.		41
51	Detecting Spoofing Attacks in Mobile Wireless Environments. , 2009, , .		40
52	Incentive Based Data Sharing in Delay Tolerant Mobile Networks. IEEE Transactions on Wireless Communications, 2014, 13, 370-381.	6.1	39
53	Performing Joint Learning for Passive Intrusion Detection in Pervasive Wireless Environments. , 2010, , .		38
54	Detecting wormhole attacks in delay-tolerant networks [Security and Privacy in Emerging Wireless Networks. IEEE Wireless Communications, 2010, 17, 36-42.	6.6	38

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55	Leveraging wearables for steering and driver tracking. , 2016, , .		38
56	A Review of IoT-Enabled Mobile Healthcare: Technologies, Challenges, and Future Trends. IEEE Internet of Things Journal, 2022, 9, 9478-9502.	5.5	38
57	The Robustness of Localization Algorithms to Signal Strength Attacks: A Comparative Study. Lecture Notes in Computer Science, 2006, , 546-563.	1.0	37
58	Multi-lateral privacy-preserving localization in pervasive environments. , 2014, , .		36
59	PPG-based Finger-level Gesture Recognition Leveraging Wearables. , 2018, , .		36
60	Determining the position of a jammer using a virtual-force iterative approach. Wireless Networks, 2011, 17, 531-547.	2.0	35
61	A Study of Localization Accuracy Using Multiple Frequencies and Powers. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1955-1965.	4.0	34
62	Vehicular speed estimation using received signal strength from mobile phones. , 2010, , .		33
63	Sensing Driver Phone Use with Acoustic Ranging through Car Speakers. IEEE Transactions on Mobile Computing, 2012, 11, 1426-1440.	3.9	33
64	Towards Low-Cost Sign Language Gesture Recognition Leveraging Wearables. IEEE Transactions on Mobile Computing, 2021, 20, 1685-1701.	3.9	33
65	VibSense: Sensing Touches on Ubiquitous Surfaces through Vibration. , 2017, , .		32
66	MUTON: Detecting Malicious Nodes in Disruption-Tolerant Networks. , 2010, , .		31
67	E ³. , 2013, , .		31
68	Sensing Human-Screen Interaction for Energy-Efficient Frame Rate Adaptation on Smartphones. IEEE Transactions on Mobile Computing, 2015, 14, 1698-1711.	3.9	31
69	Protecting Multi-Lateral Localization Privacy in Pervasive Environments. IEEE/ACM Transactions on Networking, 2015, 23, 1688-1701.	2.6	31
70	Acoustic-based sensing and applications: A survey. Computer Networks, 2020, 181, 107447.	3.2	31
71	Locating Rogue Access Point Using Fine-Grained Channel Information. IEEE Transactions on Mobile Computing, 2017, 16, 2560-2573.	3.9	30
72	Collaborative secret key extraction leveraging Received Signal Strength in mobile wireless networks. , 2012, , .		29

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73	Leveraging Audio Signals for Early Recognition of Inattentive Driving with Smartphones. IEEE Transactions on Mobile Computing, 2018, 17, 1553-1567.	3.9	29
74	An Error-Minimizing Framework for Localizing Jammers in Wireless Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 508-517.	4.0	28
75	Motion Scale: A Body Motion Monitoring System Using Bed-Mounted Wireless Load Cells. , 2016, , .		27
76	The concept of decentralized and secure electronic marketplace. Electronic Commerce Research, 2008, 8, 79-101.	3.0	26
77	BigRoad. , 2017, , .		26
78	A security and robustness performance analysis of localization algorithms to signal strength attacks. ACM Transactions on Sensor Networks, 2009, 5, 1-37.	2.3	24
79	Detecting anomalous spectrum usage in dynamic spectrum access networks. Ad Hoc Networks, 2012, 10, 831-844.	3.4	24
80	ER: Early recognition of inattentive driving leveraging audio devices on smartphones. , 2017, , .		24
81	Robust wireless localization to attacks on access points. , 2009, , .		23
82	Noninvasive Fine-Grained Sleep Monitoring Leveraging Smartphones. IEEE Internet of Things Journal, 2019, 6, 8248-8261.	5.5	23
83	Platform Civics: Facebook in the Local Information Infrastructure. Digital Journalism, 2020, 8, 1231-1257.	2.5	23
84	The Impact of Using Multiple Antennas on Wireless Localization. , 2008, , .		22
85	Localizing jammers in wireless networks. , 2009, , .		21
86	Wireless Jamming Localization by Exploiting Nodesâ€™ Hearing Ranges. Lecture Notes in Computer Science, 2010, , 348-361.	1.0	20
87	Detecting blackhole attacks in Disruption-Tolerant Networks through packet exchange recording. , 2010, , .		20
88	Profit Maximization through Online Advertising Scheduling for a Wireless Video Broadcast Network. IEEE Transactions on Mobile Computing, 2016, 15, 2064-2079.	3.9	20
89	Personal PIN Leakage from Wearable Devices. IEEE Transactions on Mobile Computing, 2018, 17, 646-660.	3.9	20
90	Enabling Fine-Grained Finger Gesture Recognition on Commodity WiFi Devices. IEEE Transactions on Mobile Computing, 2022, 21, 2789-2802.	3.9	20

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91	Simultaneous Monitoring of Multiple People's Vital Sign Leveraging a Single Phased-MIMO Radar. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2022, 6, 311-320.	2.3	20
92	Uber-in-light: Unobtrusive visible light communication leveraging complementary color channel. , 2016, , .		19
93	Ensuring Data Storage Security against Frequency-Based Attacks in Wireless Networks. Lecture Notes in Computer Science, 2010, , 201-215.	1.0	19
94	VocalLock. , 2020, 4, 1-24.		19
95	Commodity WiFi Sensing in Ten Years: Status, Challenges, and Opportunities. IEEE Internet of Things Journal, 2022, 9, 17832-17843.	5.5	19
96	A Survey of Deep Learning on Mobile Devices: Applications, Optimizations, Challenges, and Research Opportunities. Proceedings of the IEEE, 2022, 110, 334-354.	16.4	19
97	Incentive driven information sharing in delay tolerant mobile networks. , 2012, , .		18
98	Signature Verification Using Critical Segments for Securing Mobile Transactions. IEEE Transactions on Mobile Computing, 2020, 19, 724-739.	3.9	18
99	Empirical Evaluation of Wireless Localization when Using Multiple Antennas. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 1595-1610.	4.0	17
100	GoPose. , 2022, 6, 1-25.		17
101	Non-interactive localization of cognitive radios based on dynamic signal strength mapping. , 2009, , .		16
102	Localizing Multiple Jamming Attackers in Wireless Networks. , 2011, , .		16
103	SECO: Secure and scalable data collaboration services in cloud computing. Computers and Security, 2015, 50, 91-105.	4.0	16
104	Winect. , 2021, 5, 1-29.		16
105	Accurate rogue access point localization leveraging fine-grained channel information. , 2014, , .		15
106	An Adaptive Framework Coping with Dynamic Target Speed for Device-Free Passive Localization. IEEE Transactions on Mobile Computing, 2015, 14, 1138-1150.	3.9	15
107	mPose: Environment- and subject-agnostic 3D skeleton posture reconstruction leveraging a single mmWave device. Smart Health, 2022, 23, 100228.	2.0	15
108	Detecting sybil attacks in wireless and sensor networks using cluster analysis. , 2008, , .		14

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109	Distributed Cooperative Spectrum Sensing Based on Weighted Average Consensus. , 2011, , .		14
110	SteerTrack: Acoustic-Based Device-Free Steering Tracking Leveraging Smartphones. , 2018, , .		14
111	Securing Emerging Wireless Systems. , 2009, , .		13
112	Designing localization algorithms robust to signal strength attacks. , 2011, , .		13
113	Exploiting Environmental Properties for Wireless Localization and Location Aware Applications. , 2008, , .		12
114	DECODE: Exploiting Shadow Fading to DEtect COMoving Wireless DEvices. IEEE Transactions on Mobile Computing, 2009, 8, 1663-1675.	3.9	12
115	Enabling Self-Healing Smart Grid Through Jamming Resilient Local Controller Switching. IEEE Transactions on Dependable and Secure Computing, 2017, 14, 377-391.	3.7	12
116	Robot-assisted smartphone localization for human indoor tracking. Robotics and Autonomous Systems, 2018, 106, 82-94.	3.0	12
117	How Synergy Effects of Paid and Digital Owned Media Influence Brand Sales. Journal of Advertising Research, 2018, 58, 77-89.	1.0	12
118	Probing into the Physical Layer: Moving Tag Detection for Large-Scale RFID Systems. IEEE Transactions on Mobile Computing, 2020, 19, 1200-1215.	3.9	12
119	WiFi-Enabled User Authentication through Deep Learning in Daily Activities. ACM Transactions on Internet of Things, 2021, 2, 1-25.	3.4	12
120	Misleading political advertising fuels incivility online: A social network analysis of 2020 U.S. presidential election campaign video comments on YouTube. Computers in Human Behavior, 2022, 131, 107202.	5.1	12
121	Mobile Phone Enabled Social Community Extraction for Controlling of Disease Propagation in Healthcare. , 2011, , .		11
122	Thru-the-wall Eavesdropping on Loudspeakers via RFID by Capturing Sub-mm Level Vibration. , 2021, 5, 1-25.		11
123	A theoretical analysis of wireless localization using RF-based fingerprint matching. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	10
124	Leveraging Acoustic Signals for Vehicle Steering Tracking with Smartphones. IEEE Transactions on Mobile Computing, 2020, 19, 865-879.	3.9	10
125	GRAIL: a general purpose localization system. Sensor Review, 2008, 28, 115-124.	1.0	9
126	Error minimizing jammer localization through smart estimation of ambient noise. , 2012, , .		9

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127	Achieving secure and efficient data collaboration in cloud computing. , 2013, , .		9
128	Adaptive device-free passive localization coping with dynamic target speed. , 2013, , .		9
129	Robot-assisted human indoor localization using the Kinect sensor and smartphones. , 2014, , .		9
130	Critical segment based real-time E-signature for securing mobile transactions. , 2015, , .		9
131	Robust Continuous Authentication Using Cardiac Biometrics From Wrist-Worn Wearables. IEEE Internet of Things Journal, 2022, 9, 9542-9556.	5.5	9
132	ToothSonic. , 2022, 6, 1-24.		9
133	Achieving robust wireless localization resilient to signal strength attacks. Wireless Networks, 2012, 18, 45-58.	2.0	8
134	ADLS: Attack Detection for Wireless Localization Using Least Squares. , 2007, , .		7
135	A social community based approach for reducing the propagation of infectious diseases in healthcare. Mobile Computing and Communications Review, 2010, 14, 7-9.	1.7	7
136	Social closeness based clone attack detection for mobile healthcare system. , 2012, , .		7
137	Proactive call drop avoidance in UMTS networks. , 2013, , .		7
138	VPad: Virtual Writing Tablet for Laptops Leveraging Acoustic Signals. , 2018, , .		7
139	Implications of smartphone user privacy leakage from the advertiserâ€™s perspective. Pervasive and Mobile Computing, 2019, 53, 13-32.	2.1	7
140	EchoLock: Towards Low-effort Mobile User Identification Leveraging Structure-borne Echos. , 2020, , .		7
141	GRAIL. , 2006, , .		6
142	A decentralized key management scheme via neighborhood prediction in mobile wireless networks. , 2010, , .		6
143	Defending Against Identity-Based Attacks in Wireless Networks. , 2012, , 191-222.		6
144	Towards Understanding the Advertiser's Perspective of Smartphone User Privacy. , 2015, , .		6

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145	A Low-cost, Smartphone-only Pulse Transit Time Measurement System Using Cardio-mechanical Signals and Optical Sensors*. , 2018, 2018, 1-4.		6
146	Localizing Acoustic Objects on a Single Phone. IEEE/ACM Transactions on Networking, 2021, 29, 2170-2183.	2.6	6
147	Bipartite Graph Matching Based Secret Key Generation. , 2021, , .		6
148	Proximity-Echo: Secure Two Factor Authentication Using Active Sound Sensing. , 2021, , .		6
149	Color Scheme Adaptation to Enhance User Experience on Smartphone Displays Leveraging Ambient Light. IEEE Transactions on Mobile Computing, 2017, 16, 688-701.	3.9	5
150	Secret key distribution leveraging color shift over visible light channel. , 2017, , .		5
151	DECODE : Detecting co-moving wireless devices. , 2008, , .		4
152	Characterizing the impact of multi-frequency and multi-power on localization accuracy. , 2010, , .		4
153	Neighborhood prediction based decentralized key management for mobile wireless networks. Wireless Networks, 2013, 19, 1387-1406.	2.0	4
154	Smartphone Privacy Leakage of Social Relationships and Demographics from Surrounding Access Points. , 2017, , .		4
155	A Smartphone-Only Pulse Transit Time Monitor Based on Cardio-Mechanical and Photoplethysmography Modalities. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1462-1470.	2.7	4
156	I3. , 2019, 3, 1-22.		4
157	Leveraging Acoustic Signals for Fine-Grained Breathing Monitoring in Driving Environments. IEEE Transactions on Mobile Computing, 2022, 21, 1018-1033.	3.9	4
158	Reference Waveforms Forward Concurrent Transmissions in ZigBee Communications. IEEE/ACM Transactions on Networking, 2020, 28, 1629-1642.	2.6	4
159	Metadata-guided evaluation of resource-constrained queries in content caching based wireless networks. Wireless Networks, 2011, 17, 1833-1850.	2.0	3
160	Securing Mobile Location-based Services through position verification leveraging key distribution. , 2012, , .		3
161	Leveraging Wi-Fi Signals to Monitor Human Queues. IEEE Pervasive Computing, 2014, 13, 14-17.	1.1	3
162	SalsaAsst: Beat Counting System Empowered by Mobile Devices to Assist Salsa Dancers. , 2017, , .		3

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163	Extinguishing Lady Liberty's Torch? Online Public Responses to the U.S. Executive Order to Ban Immigrants from 7 Countries. Journal of Intercultural Communication Research, 2018, 47, 564-580.	0.3	3
164	Enable Traditional Laptops with Virtual Writing Capability Leveraging Acoustic Signals. Computer Journal, 2021, 64, 1814-1831.	1.5	3
165	To Do or Not to Do: Metadata-Guided Query Evaluation in Content Caching Networks. , 2009, , .		2
166	Inverting Systems of Embedded Sensors for Position Verification in Location-Aware Applications. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 722-736.	4.0	2
167	Toward attack‐resistant localization under infrastructure attacks. Security and Communication Networks, 2012, 5, 384-403.	1.0	2
168	P2E: Privacy-preserving and effective cloud data sharing service. , 2013, , .		2
169	Acoustic-Sensing-Based Location Semantics Identification Using Smartphones. IEEE Internet of Things Journal, 2022, 9, 20640-20650.	5.5	2
170	A trusted infrastructure for facilitating access control of location information. , 2008, , .		1
171	Passive intrusion detection in wireless networks by exploiting clustering-based learning. , 2010, , .		1
172	Towards self-healing smart grid via intelligent local controller switching under jamming. , 2013, , .		1
173	Defending against Frequency-Based Attacks on Distributed Data Storage in Wireless Networks. ACM Transactions on Sensor Networks, 2014, 10, 1-37.	2.3	1
174	SubTrack: Enabling Real-Time Tracking of Subway Riding on Mobile Devices. , 2017, , .		1
175	Good vibrations: accessing 'smart' systems by touching any solid surface. Biometric Technology Today, 2018, 2018, 7-10.	0.7	1
176	Proactive User Authentication Using WiFi Signals in Dynamic Networks. Advances in Information Security, 2019, , 223-248.	0.9	1
177	MIXP: Efficient Deep Neural Networks Pruning for Further FLOPs Compression via Neuron Bond. , 2021, , .		1
178	Authentication of Voice Commands by Leveraging Vibrations in Wearables. IEEE Security and Privacy, 2021, , 2-11.	1.5	1
179	Detecting Mobile Agents Using Identity Fraud. SpringerBriefs in Computer Science, 2014, , 43-66.	0.2	1
180	A Phoneme Localization Based Liveness Detection for Text-independent Speaker Verification. IEEE Transactions on Mobile Computing, 2022, , 1-14.	3.9	1

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181	Prediction of near likely nodes in data-centric mobile wireless networks. , 2009, , .		0
182	Using a multiple analytical distribution filter for underwater localization. , 2009, , .		0
183	A Reinforcement Learning Based Framework for Prediction of Near Likely Nodes in Data-Centric Mobile Wireless Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	1.5	0
184	Distributed Spatio-Temporal Social Community Detection Leveraging Template Matching. , 2011, , .		0
185	Attack Detection Model. SpringerBriefs in Computer Science, 2014, , 7-22.	0.2	0
186	State-of-Art Researches. Springer Briefs in Electrical and Computer Engineering, 2018, , 65-68.	0.3	0
187	Sensing Vehicle Dynamics for Abnormal Driving Detection. Springer Briefs in Electrical and Computer Engineering, 2018, , 25-43.	0.3	0
188	Sensing Driver Behaviors for Early Recognition of Inattentive Driving. Springer Briefs in Electrical and Computer Engineering, 2018, , 45-64.	0.3	0
189	Sensing Vehicle Dynamics with Smartphones. Springer Briefs in Electrical and Computer Engineering, 2018, , 7-23.	0.3	0