

Amy Neustein · Hemant A. Patil *Editors*

# Forensic Speaker Recognition

Law Enforcement and Counter-Terrorism

 Springer

# Forensic Speaker Recognition Author Amy Neustein Oct 2011

**Jucheng Yang, Shan Juan Xie**



## **Forensic Speaker Recognition Author Amy Neustein Oct 2011:**

**New Trends and Developments in Biometrics** Jucheng Yang, Shan Juan Xie, 2012-11-28 In recent years biometrics has developed rapidly with its worldwide applications for daily life New trends and novel developments have been proposed to acquire and process many different biometric traits The ignored challenges in the past and potential problems need to be thought together and deeply integrated The key objective of the book is to keep up with the new technologies on some recent theoretical development as well as new trends of applications in biometrics The topics covered in this book reflect well both aspects of development They include the new development in forensic speaker recognition 3D and thermo face recognition finger vein recognition contact less biometric system hand geometry recognition biometric performance evaluation multi biometric template protection and novel subfields in the new challenge fields The book consists of 13 chapters It is divided into four sections namely theory and method performance evaluation security and template protection and other applications The book was reviewed by editors Dr Jucheng Yang and Dr Shanjuan Xie We deeply appreciate the efforts of our guest editors Dr Norman Poh Dr Loris Nanni Dr Dongsun Park Dr Sook Yoon and Ms Congcong Xiong as well as a number of anonymous reviewers *Forensic Speaker Recognition* Amy Neustein, Hemant A. Patil, 2011-10-05 Forensic Speaker Recognition Law Enforcement and Counter Terrorism is an anthology of the research findings of 35 speaker recognition experts from around the world The volume provides a multidimensional view of the complex science involved in determining whether a suspect's voice truly matches forensic speech samples collected by law enforcement and counter terrorism agencies that are associated with the commission of a terrorist act or other crimes While addressing such topics as the challenges of forensic case work handling speech signal degradation analyzing features of speaker recognition to optimize voice verification system performance and designing voice applications that meet the practical needs of law enforcement and counter terrorism agencies this material all sounds a common theme how the rigors of forensic utility are demanding new levels of excellence in all aspects of speaker recognition The contributors are among the most eminent scientists in speech engineering and signal processing and their work represents such diverse countries as Switzerland Sweden Italy France Japan India and the United States Forensic Speaker Recognition is a useful book for forensic speech scientists speech signal processing experts speech system developers criminal prosecutors and counter terrorism intelligence officers and agents *Forensic Speaker Identification* Phil Rose, 2002-07-01 A voice is much more than just a string of words Voices unlike fingerprints are inherently complex They signal a great deal of information in addition to the intended message the speakers sex for example or their emotional state or age Although evidence from DNA analysis grabs the headlines DNA can't talk It can't be recorded planning Speaker Recognition and Its Commercial and Forensic Applications, 2000

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misplaced modifiers this is a common problem in american speech writing has to be more precise than speaking or it will be misunderstood a misplaced modifier is simply a word or phrase describing something but not placed near enough the word it is supposed to modify the modifying word or phrase is not dangling no extra words are needed the modifier is just in



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apr 28 2021 a misplaced modifier is a modifier that is in the wrong place as a result it appears to modify the wrong noun misplaced the salesman tried to sell a car to a customer that was broken down broken down is the modifier but because it s closest to customer it sounds like the customer is broken down instead of the car

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jul 28 2021 example 1 an end to his driving you ll often find an adverb between the subject and the verb of a sentence but unless it s modifying the verb it s a misplaced modifier for example misplaced modifier he nearly drove the car for six hours a day correction he drove the car for nearly six hours a day

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misplaced modifiers occur when the subject of the modifier is unclear because the modifier is poorly placed the reader may be unsure of what word the modifier is describing the reader may even think the misplaced modifier is describing a different word than intended consider the sentence below and its revision the modifier is underlined

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misplaced modifiers modifiers should be placed next to the words they modify and any exception to the rule can produce ambiguity or even a complete lack of clarity while hunting in africa i shot an elephant in my pajamas how an elephant got into my pajamas i ll never know

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correct any misplaced modifiers in the following sentences the vehicle was parked on the front lawn of the starr residence with a slightly flat tire two police officers arrested mr james outside three rivers stadium on the night of the raid on charges of marijuana possession

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if too much distance separates a modifier and its target the modifier is misplaced sauced with lumpy gravy the waitress served gilbert a plate of gray meatloaf the waitress is sauced with lumpy gravy that s not logical if the sentence fails to

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about this worksheet misplaced modifiers are often funny but they are also wrong in this worksheet your student will correct the misplaced modifiers in sentences it s perfect for practicing common core standards for language for 7th grade but other students in other grades may also use it click to view print worksheet get worksheet

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updated on february 6 2023 grammar a misplaced modifier is a word phrase or clause that is separated from the word it describes creating confusion and ambiguity for example if you say purple women s shoes it sounds like the women are purple not the shoes in this case purple is the misplaced modifier

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correct they bought a kitten they call shadow for my brother in the incorrect sentence it seems that the brother s name is shadow that s because the modifier is too far from the word it modifies which is kitten incorrect the patient was referred to the physician with stomach pains

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a misplaced modifier is a word or group of words that does not link clearly to what it is intended to modify a misplaced modifier makes the meaning of a sentence ambiguous or wrong table of contents examples of misplaced modifiers real life examples of misplaced modifiers misplaced modifiers in jokes why misplaced modifiers are important

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grammar exercise on modifiers before starting this exercise ensure that you have thoroughly studied the lessons on modifiers in english grammar this exercise aims to test your understanding and application of modifiers in sentences it includes various types of activities such as fill in the blanks multiple choice questions and long and

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jan 17 2020 a misplaced modifier is improperly positioned in relation to the word phrase or clause it is supposed to describe example neil armstrong made history as the first man to step on the moon in 1969

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may 26 2021 just putting the modifier almost right before the verb left rather than the noun everyone keeps everyone from leaving example 9 misplaced squinting modifier squinting modifiers are usually adverbs that change the meaning of the sentence when they re misplaced running up and down the stairs rapidly exhausted me

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let s review some of the most common misplacements of modifiers examples of misplaced modifiers adverbs when modifying words are misplaced they ll often be qualifying adverbs such as simply almost even just and especially only with only our tendency is to place it before the verb however our intended meaning can often be

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jul 18 2022 what is a modifier as we mentioned above modifiers are words that modify their sentences meanings take a look at these two examples i rode the train i rode the earliest train into the city the second sentence is more descriptive because of the modifiers it contains

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web a write a balanced equation for the reaction  $\text{Al}_2\text{O}_3 + 4\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3$  b determine the theoretical yield of  $\text{Al}_2\text{O}_3$  160.0 g Al x 1 mol Al x 2 mol  $\text{Al}_2\text{O}_3$  x 101.964 g  $\text{Al}_2\text{O}_3$  302.3 g  $\text{Al}_2\text{O}_3$  26.982 g Al 4 mol Al 1 mol  $\text{Al}_2\text{O}_3$  c determine the percent yield  $\text{yield actual} \times 100 = \frac{260.0 \text{ g}}{100.8601 \text{ theoretical}} \times 100 = 260.0 \text{ g}$

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web 7 Na<sub>2</sub>CO<sub>4</sub> is the limiting reactant percent yield 86.68 only four molecules can be made 9 this amount cannot be weighted by ordinary balances and is worthless 10 nitrogen is the limiting reagent 11 yes methane is the limiting reagent 12 C is the limiting reagent 4 33 g of H<sub>2</sub> are left over 13

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web limiting reactant and percent yield practice name 1 consider the following reaction  $\text{NH}_4\text{NO}_3 + \text{Na}_3\text{PO}_4 \rightarrow \text{NH}_4\text{PO}_4 + \text{NaNO}_3$  which reactant is limiting assuming we started with 30.0 grams of ammonium nitrate and 50.0 grams of sodium phosphate

what is the

*limiting reagents and percentage yield worksheet answers* - Sep 04 2022

web limiting reagents and percentage yield worksheet 1 consider the reaction  $\text{I}_2\text{O}_5 + 5\text{CO} \rightarrow \text{I}_2 + 5\text{CO}_2$  a 80.0 grams of iodine(V) oxide  $\text{I}_2\text{O}_5$  reacts with 28.0 grams of carbon monoxide  $\text{CO}$  determine the mass of iodine  $\text{I}_2$  which could be produced

80 g  $\text{I}_2\text{O}_5$  1 mol  $\text{I}_2\text{O}_5$  1 mol  $\text{I}_2$   $\times$  1 333.8 g  $\text{I}_2$  1 mol  $\text{I}_2$  28 g  $\text{CO}$  1 mol  $\text{CO}$

**7.3 limiting reactant and percent yield problems** - Jun 13 2023

web Jun 2 2020 the percent yield of a reaction is the ratio of the actual yield to the theoretical yield multiplied by 100 to give a percentage

text percent yield text actual yield g over text theoretical yield g times 100 label 3 7 3